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Terms	Documents
129 and macro language	3

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Search History**Today's Date: 11/14/2000**

DB Name**Registry****Hit Count** **Name**

USPT	l29 and macro language	3	L36
USPT	l28 and macro language	0	L35
USPT	l27 and macro language	0	L34
USPT	l26 and macro language	3	L33
USPT	l25 and macro language	1	L32
USPT	l24 and macro language	5	L31
USPT	l23 and macro language	0	L30
USPT	((345/348)!.CCLS.)	533	L29
USPT	((712/3)!.CCLS.)	37	L28
USPT	((703/3)!.CCLS.)	135	L27
USPT	((717/8)!.CCLS.)	228	L26
USPT	((717/3)!.CCLS.)	189	L25
USPT	((707/10)!.CCLS.)	1106	L24
USPT	((707/1)!.CCLS.)	854	L23
USPT	l20 and macro	0	L22
USPT	l20 and macro same handler	0	L21
USPT	5162986.pn.	1	L20
USPT	nguyen, tam.in.	8	L19
USPT	5737592.uref	0	L18
USPT	5295059.uref	0	L17
USPT	macro adj handler	1	L16
USPT	l14 and macro same command	4	L15
USPT	keyword same repository or keyword same registry	60	L14
USPT	keyword adj repository or keyword adj registry	0	L13
USPT	keyword repository or registry	28624	L12
USPT	l1 and keyword	18	L11
USPT	5255305.pn.	1	L10
USPT	5715453.pn.	1	L9
USPT	5737592.pn.	1	L8
USPT	5748188.pn.	1	L7
USPT	5793966.pn.	1	L6
USPT	5913029.pn.	1	L5
USPT	5335346.pn.	1	L4
USPT	5396626.pn.	1	L3
USPT	l1 and macro same handler	5	L2
USPT	macro language	117	L1

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Terms	Documents
((707/2)!.CCLS.) and macro language	3

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Today's Date: 11/14/2000

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
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USPT	((707/100)!.CCLS.) and macro language	3	L40
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USPT	((707/500)!.CCLS.) and macro language	2	L38
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USPT	l23 and macro language	0	L30
USPT	((345/348)!.CCLS.)	533	L29
USPT	((712/3)!.CCLS.)	37	L28
USPT	((703/3)!.CCLS.)	135	L27
USPT	((717/8)!.CCLS.)	228	L26
USPT	((717/3)!.CCLS.)	189	L25

USPT	((707/1) CCLS.)	1106	<u>L24</u>
USPT	((707/1)!.CCLS.)	854	<u>L23</u>
USPT	l20 and macro	0	<u>L22</u>
USPT	l20 and macro same handler	0	<u>L21</u>
USPT	5162986.pn.	1	<u>L20</u>
USPT	nguyen, tam.in.	8	<u>L19</u>
USPT	5737592.uref	0	<u>L18</u>
USPT	5295059.uref	0	<u>L17</u>
USPT	macro adj handler	1	<u>L16</u>
USPT	l14 and macro same command	4	<u>L15</u>
USPT	keyword same repository or keyword same registry	60	<u>L14</u>
USPT	keyword adj repository or keyword adj registry	0	<u>L13</u>
USPT	keyword repository or registry	28624	<u>L12</u>
USPT	l1 and keyword	18	<u>L11</u>
USPT	5255305.pn.	1	<u>L10</u>
USPT	5715453.pn.	1	<u>L9</u>
USPT	5737592.pn.	1	<u>L8</u>
USPT	5748188.pn.	1	<u>L7</u>
USPT	5793966.pn.	1	<u>L6</u>
USPT	5913029.pn.	1	<u>L5</u>
USPT	5335346.pn.	1	<u>L4</u>
USPT	5396626.pn.	1	<u>L3</u>
USPT	l1 and macro same handler	5	<u>L2</u>
USPT	macro language	117	<u>L1</u>

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L1: Entry 10 of 117

File: USPT

Aug 15, 2000

US-PAT-NO: 6105043

DOCUMENT-IDENTIFIER: US 6105043 A

TITLE: Creating macro language files for executing structured query language (SQL) queries in a relational database via a network

DATE-ISSUED: August 15, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Francisco; Grace	San Jose	CA	N/A	N/A
Goldberg; Michael Scott	Incline Village	NV	N/A	N/A

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
International Business Machines Corporation	Armonk	NY	N/A	N/A	02

APPL-NO: 8/ 991323

DATE FILED: December 16, 1997

PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATIONS This application is related to co-pending and commonly-assigned patent application Ser. No. 08/491,742, filed Jun. 19, 1995, by Tam Minh Nguyen and Venkatachary Srinivasan, entitled "ACCESSING A RELATIONAL DATABASE OVER THE INTERNET USING MACRO LANGUAGE FILES," which application is incorporated by reference herein.

INT-CL: [7] G06F 17/30

US-CL-ISSUED: 707/513; 707/100, 707/500, 707/526, 707/2

US-CL-CURRENT: 707/513; 707/100, 707/2, 707/500, 707/526

FIELD-OF-SEARCH: 707/4, 707/104, 707/103, 707/513, 707/2, 395/200.33, 345/326

REF-CITED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>5255305</u>	October 1993	Sattar	379/34
<input type="checkbox"/> <u>5715453</u>	February 1998	Stewart	707/104
<input type="checkbox"/> <u>5737592</u>	April 1998	Nguyen et al.	707/4
<input type="checkbox"/> <u>5748188</u>	May 1998	Hu et al.	345/326
<input type="checkbox"/> <u>5793966</u>	August 1998	Amstein et al.	395/200.33
<input type="checkbox"/> <u>5913029</u>	June 1999	Shostak	345/357

ART-UNIT: 271

PRIMARY-EXAMINER: Lintz; Paul R.

ASSISTANT-EXAMINER: Colbert; Ella

ATTY-AGENT-FIRM: Kurdirka & Jobse, LLP

ABSTRACT:

A method, apparatus, and article of manufacture for creating pro language files for executing SQL queries in a relational database management system via the World Wide Web of the Internet. In accordance with the present invention, Web users can request information from RDBMS software via HTML input forms, which request is then used to create an SQL statement for execution by the RDBMS software. The results output by the RDBMS software are themselves transformed into HTML format for presentation to the Web user.

25 Claims, 14 Drawing figures

☐ Generate Collection

L11: Entry 6 of 18

File: USPT

Mar 14, 2000

US-PAT-NO: 6038562

DOCUMENT-IDENTIFIER: US 6038562 A

TITLE: Interface to support state-dependent web applications accessing a relational database

DATE-ISSUED: March 14, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Anjur; Vaishnavi	Emeryville	CA	N/A	N/A
Chadha; Atul	Milpitas	CA	N/A	N/A
Goel; Piyush	Monte Sereno	CA	N/A	N/A
Iyer; Balakrishna Raghavendra	San Jose	CA	N/A	N/A
Srinivasan; Venkatachary	Santa Clara	CA	N/A	N/A
Watts; Steven John	Morgan Hill	CA	N/A	N/A

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
International Business Machines Corporation	Armonk	NY	N/A	N/A	02

APPL-NO: 8/ 708512

DATE FILED: September 5, 1996

INT-CL: [7] G06F 17/30

US-CL-ISSUED: 707/10; 707/2, 707/101, 707/202

US-CL-CURRENT: 707/10; 707/101, 707/2, 707/202

FIELD-OF-SEARCH: 345/182.18, 707/10, 707/202, 707/2, 707/101

REF-CITED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> 5089954	February 1992	Rago	707/104
<input type="checkbox"/> 5421004	May 1995	Carpenter et al.	714/25
<input type="checkbox"/> 5544316	August 1996	Carpenter et al.	709/300
<input type="checkbox"/> 5737592	April 1998	Nguyen et al.	N/A
<input type="checkbox"/> 5752023	May 1998	Choucrist et al.	707/10
<input type="checkbox"/> 5903891	May 1999	Chen et al.	707/10

OTHER PUBLICATIONS

Gray, J. et al., "Transaction Processing: Concepts and Techniques," Chapters 1 & 4, Morgan Kaufman Publishers, Inc., 1993, pp. 3-44 and 159-235.

"Common Gateway Interface," CGI--Common Gateway Interface, cgi@ncsa.uiuc.edu (2 pages).

"The Common Gateway Interface," CGI--Common Gateway Interface, cgi@ncsa.uiuc.edu (3 pages).

"VMARK Software Enters a Web Market with Product for Dynamic Data Access; Provides Web-Based Applications with Database-Independent Access to Existing Data," Business Wire, Dec. 19, 1995. Available in DIALOG File 148: IAC Trade & Industry Database, Accession

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"Spider Tools Speeds Database, Web Connections. (Spider Technologies' Spider 1.1 Unix Visual Development Environment)", InfoWorld, v17, n43, p6(1), Oct. 23, 1995. Available in DIALOG File 275:IAC(SM) Computer Database(TM), Accession #01852841.

Garcia-Molina, H. et al., "Sagas" in Transaction Management, Chapter 3, 1987, pp. 290-300.

Gray, J., "The Transaction Concept:: Virtues and Limitations," IEEE, 1981, pp. 144-153.

Gray, J., "A Transaction Model," in ICALP 80: Automata, Languages and Programming, vol. 85, Berlin: Springer-Verlag, 1980, pp. 282-298.

ART-UNIT: 271

PRIMARY-EXAMINER: Lintz; Paul R.

ATTY-AGENT-FIRM: Gates & Cooper

ABSTRACT:

Many web applications require access to a relational database. The requirements of such web applications are different from conventional applications that access a database. Web applications need to have selective recoverability and need to have support for different transaction structures, other than the flat transaction structure of conventional database applications, including nested and chained transactions. To achieve this, an interface between the application and database has the following functional features: 1) the interface to the database is connection oriented, i.e., the connection is retained across several invocations of the application; 2) the backend of the interface is long living, i.e., it exists across multiple invocations; 3) state information about a session in progress is maintained, and more specifically, it is distributed between the backend of the interface and the hidden fields of the HTML output document.

45 Claims, 6 Drawing figures

☐ Generate Collection

L11: Entry 10 of 18

File: USPT

Dec 29, 1998

US-PAT-NO: 5855014

DOCUMENT-IDENTIFIER: US 5855014 A

TITLE: Getfield function for a relational workgroup platform using keyword and workflow databases

DATE-ISSUED: December 29, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Smith; Gordon Samuel	New York	NY	N/A	N/A

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Application Partners, Inc.	Edison	NJ	N/A	N/A	02

APPL-NO: 8/ 739864

DATE FILED: October 31, 1996

INT-CL: [6] G06F 17/30

US-CL-ISSUED: 707/3; 707/201, 707/10, 707/203

US-CL-CURRENT: 707/3; 707/10, 707/201, 707/203

FIELD-OF-SEARCH: 707/3, 707/201, 707/203, 707/10

REF-CITED:

U.S. PATENT DOCUMENTS

☐ Search Selected☐ Search ALL

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>5339392</u>	August 1994	Risberg et al.	345/333
<input type="checkbox"/>	<u>5499359</u>	March 1996	Vijaykumar	707/201
<input type="checkbox"/>	<u>5630066</u>	May 1997	Gosling	395/200.51
<input type="checkbox"/>	<u>5666490</u>	September 1997	Gillings et al.	395/200.68
<input type="checkbox"/>	<u>5680615</u>	October 1997	Marlin et al.	707/103
<input type="checkbox"/>	<u>5721913</u>	February 1998	Ackroff et al.	1/1

OTHER PUBLICATIONS

"Lotus Notes Application Developer's Reference, Release 3", Lotus Development Corporation, Cambridge, MA (1993) Chapter-1.

Betty Vandenbosch et al, Lotus Notes and Collaboration: Le plus ca change. . . , IEEE 1996, 61-71.

Kenneth Moore and Michelle Peterson, A Groupware Benchmark Based on Lotus Notes, IEEE 1996, 500-507.

ART-UNIT: 271

PRIMARY-EXAMINER: Black; Thomas G.

ASSISTANT-EXAMINER: Channavajjala; Srirama

ATTY-AGENT-FIRM: Lerner, David, Littenberg, Krumholz & Mentlik

ABSTRACT:

Described herein is a Relational Workgroup Platform. A Relational Workgroup Platform

Record Display Form
comprising a workgroup platform; and a @WITGetField() function; wherein said workgroup platform, illustrated herein by Lotus Notes, comprises a server functionality as means of storing databases for and amongst a network of computer workstations, said databases comprising data fields and a set of functions for manipulating data and data fields within said databases, and for writing data to and retrieving data from said data fields from within any one database. The Relational Workgroup Platform of the present invention is created by adding to the workgroup platform a @WITGetField() functionality that comprises means for retrieving data from a data field of any one of the databases and transferring same to any other said database and wherein said @WITGetField() functionality is usable as an argument in other functions.

14 Claims, 8 Drawing figures



Generate Collection

L11: Entry 3 of 18

File: USPT

Aug 15, 2000

US-PAT-NO: 6105043

DOCUMENT-IDENTIFIER: US 6105043 A

TITLE: Creating macro language files for executing structured query language (SQL) queries in a

DATE-ISSUED: August 15, 2000

INVENTOR-INFORMATION:

NAME	STATE
Francisco; Grace	CA
Goldberg; Michael Scott	NV

ASSIGNEE INFORMATION:

NAME

International Business Machines Corporation

APPL-NO: 8/ 991323

DATE FILED: December 16, 1997

PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATIONS This application is related to co-pending and commonly-

INT-CL: [7] G06F 17/30

US-CL-ISSUED: 707/513; 707/100, 707/500, 707/526, 707/2
US-CL-CURRENT: 707/513; 707/100, 707/2, 707/500, 707/526

FIELD-OF-SEARCH: 707/4, 707/104, 707/103, 707/513, 707/2, 395/200.33, 345/326

REF-CITED:



ART-UNIT: 271

PRIMARY-EXAMINER: Lintz; Paul R.

ASSISTANT-EXAMINER: Colbert; Ella

ATTY-AGENT-FIRM: Kurdirka & Jobse, LLP

A method, apparatus, and article of manufacture for creating macro language files for executing

25 Claims, 14 Drawing figures
Exemplary Claim Number: 25
Number of Drawing Sheets: 14

BRIEF SUMMARY:

BACKGROUND OF THE INVENTION

1. Field of the Invention

This invention relates in general to database management systems performed by computers, and in

2. Description of Related Art

With the fast growing popularity of the Internet and the World Wide Web (also known as "WWW" or For example, the Web operates using the HyperText Transfer Protocol (HTTP) and the HyperText Ma In contrast, most RDBMS software uses a Structured Query Language (SQL) interface. The SQL inte Thus, there is a need in the art for methods of accessing RDBMS software across the Internet ne SUMMARY OF THE INVENTION

To overcome the limitations in the prior art described above, and to overcome other limitations DRAWING DESCRIPTION:

BRIEF DESCRIPTION OF THE DRAWINGS

Referring now to the drawings in which like reference numbers represent corresponding parts thr FIG. 1 schematically illustrates the hardware environment of the preferred embodiment of the pr FIG. 2 shows schematically an overview of the preferred embodiment of the present invention, an FIG. 3 shows schematically an overview of the preferred embodiment of the present invention, an FIGS. 4A-4F are "snapshots" of a DB2 Web Sizing Assistant that comprises at least a portion of FIG. 5 is a flowchart that illustrates the general logic of a message or event-driven database FIG. 6 is a flowchart that illustrates the general logic to perform a sequence of steps for the FIG. 7 is a flowchart illustrating the steps involved in creating macro language files using th FIG. 8 is a flowchart illustrating the steps involved in using macro language files to provide FIG. 9 is a flowchart illustrating the steps involved in using a macro language file to generat DETAILED DESCRIPTION:

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

In the following description of the preferred embodiment, reference is made to the accompanying Overveiw

With the fast growing popularity of the Internet and the World Wide Web (also known as "WWW" or An end user of these applications sees only the Input forms for his/her requests and the result An application developer creates HTML forms and SQL queries and stores them in macro language f forms and for generation of the SQL query.

Hardware Environment

FIG. 1 schematically illustrates the hardware environment of the preferred embodiment of the present invention. A client system 12 typically executes a Web browser and is coupled to a server computer 14 executing the DB2 WWW gateway 16. The DB2 WWW gateway 16 supports access to a server 18 executing the RDBMS software. The DB2 WWW gateway 16 Those skilled in the art will recognize many modifications may be made to this configuration with reference to the DB2 WWW Gateway.

The DB2 WWW gateway 16 is designed to be sufficiently flexible and powerful, yet be available on a variety of platforms. These goals led also to the development of the macro language of the present invention. The macro language The runtime engine of the DB2 WWW gateway 16 reads the macro language files to generate the appropriate HTML. Moreover, the present invention provides a tool for generating the macro language files. Specification of the Interaction Among Components

FIG. 2 shows schematically an overview of the preferred embodiment of the present invention, an interaction among components. An HTTP anchor reference would typically be formatted as follows: "macro-language-file },{comma} An HTTP form action would typically be formatted in a similar manner as follows: "

"

In both of the above examples, the following parameters are used:

"{web-server}" identifies the Web server 14;

"{cgi-name}" identifies the Common Gateway Interface (CGI) to the DB2 WWW gateway 16;

"{db2-www-gateway}" identifies the DB2 WWW gateway 16;

"{macro-language-file}" is the name of the macro language file 20 to be executed;

"{command}" is generally either "input" or "report". If "input", then an HTML Input form is displayed for the end user;

"{method}" is either "GET" or "POST", as specified under the HTML standard;

"[?variable-name=variable-value & . . .]" are optional parameters that may be passed to the macro language file 20.

At some point in the interaction between the Web browser 12, the Web server 14, and the DB2 WWW gateway 16

The user manipulates the HTML Input form via the Web browser 12, by selecting functions and/or entering data in the form.

The DB2 WWW gateway 16 extracts the user inputs from the HTML Input form, retrieves the associated macro language file 20.

Development Environment

FIG. 3 shows schematically an overview of the preferred embodiment of the present invention, and in particular, shows the interaction among components.

As mentioned earlier, the runtime environment includes the interaction between clients 12 executing Web browsers and the DB2 WWW gateway 16.

According to the present invention, the development of Web applications for accessing relational databases typically involves the following steps:

1. Create an HTML Input form for display to the user;
2. Extract user inputs from HTML Input forms and generate the appropriate SQL query via a common name space

3. Merge the SQL query results into an HTML Report form; and

4. Allow for additional queries and HTML forms, possibly from the hyperlinks embedded in the HTML Report form

The key challenge in writing applications for the DB2 WWW gateway 16 is to understand both HTML and SQL 1a

The DBMS 22 is preferably executed by a computer, such as a personal computer or workstation, that may be conn

Thus, the present invention may be implemented as a method, apparatus, or article of manufacture using standard p

Graphical User Interface

FIGS. 4A-4F are "snapshots" of a DB2 Web Sizing Assistant that comprises at least a portion of the graphical user

The Web Sizing Assistant displays a dialogue box 24 with five tabs along the top edge of the dialogue box 24, whe

FIG. 4A shows the "Step 1: Open" display of the dialogue box 24. This display of the dialogue box 24 allows the d

FIG. 4B shows the "Step 2: Form/Report" display of the dialogue box 24. This display of the dialogue box 24 inclu

FIG. 4C shows the "Step 3: Input" display of the dialogue box 24. In this display of the dialogue box 24, the develo

FIG. 4D shows the "Step 4: SQL" display of the dialogue box 24. This display of the dialogue box 24 allows the de

Prompt End Users--Prompt users whether they want to display the SQL statement on the Report form.

Always Off--Never display the SQL statement on the Report form.

Always On--Always display the SQL statement on the Report form.

The radiobuttons in the "Search Type" section 48 define what type of search is being implemented, wherein one of

Prompt End Users--Prompt users for the type of search on the Input form.

AND--The search type comprises "ANDed" fields of the Input form.

OR--The search type comprises "ORed" fields of the Input form.

The developer can specify the "Maximum number of rows to return" in field 50 is used to define the maximum num

The "Define Error/Warning Message Table . . . " button 52 allows the developer to define error/warning messages

FIG. 4E, wherein the table includes an error code, an HTML message to be transmitted to the user upon receipt of

The developer also has the option of entering a default error message in field 54. If an error/warning occurs for wh

Once the Error/Warning Message Table has been defined, the developer selects the Return to DB2 Web Sizing Ass

FIG. 4F shows the "Step 5. WWW" display of the dialogue box 24. In this display of the dialogue box 24, the deve

The radiobuttons in the "Case conversion" section 62 define whether user input is converted before being transmitt

Do Not Convert--Any data that the user enters on the HTML Input form will be left in the case entered by the user

Lower Case--Any data that the user enters on the HTML Input form will be converted to lower case before the que

Upper Case--Any data that the user enters on the HTML Input form will be converted to upper case before the que

The radiobuttons in the "Form Method" section 64 define what type of search is being implemented, wherein one o

Post--This method causes the data entered by the user in the Input form to be sent to the Web server 14 in the body

Get--This method causes the data entered by the user in the Input form to be appended to the URL.

Thereafter, the developer selects the Done button, which causes the Web Sizing Assistant to generate the macro lan

Macro Language Definitions

According to the preferred embodiment of the present invention, each macro language file typically contains three s

1. An SQL command section identified as follows:

%SQL {sql command section %}

2. An HTML Input form section identified as follows:

%HTML.sub.-- INPUT {html input form section %}

3. An HTML Report form section identified as follows:

%HTML.sub.-- REPORT {html report form section %}

The macro language contains directives, which are reserved keywords with a prefix symbol "%" (e.g. %SQL). Man

SQL Directive

The SQL directive has the following format:

_____ %SQL {any-valid-sql-commands-on-1-line%} or %SQL { any-val

The SQL directive identifies one or more SQL commands for execution by the RDBMS software. These SQL com

HTML Input Form Directive

The HTML Input form directive has the following format:

_____ %HTML.sub.-- INPUT {any-valid-html-text-on-1-line%} or %HT

The HTML Input form directive contains the HTML commands comprising the Input form used to accept input da

HTML Report Form Directive

The HTML Report form directive has the following format:

_____ %HTML.sub.-- REPORT {any-valid-html-text-on-1-lines%} or %

The HTML Report form directive contains the HTML commands used to format query results for display to the us

Comment Directive

The HTML comment directive has the following format:

```
_____ % {any-text-on-1-line%} or %} any-text-on-1-or-more-lines %} _
```

The comment directive contains the comments to be inserted anywhere in the macro language file 20, so long as it

DEFINE Directive

The DEFINE directive has the following format:

```
_____ %DEFINE define-statement or %DEFINE { define-statement-1 de
```

The DEFINE directive defines the variables used in the macro language file 20. The "define-statement" above may

1. A simple variable assignment:

```
varname="string-value"
```

2. A conditional variable assignment:

```
varname=varname2 ? "value1"."value2 "
```

3. A list variable declaration:

```
%LIST "value-separator" varname
```

The DEFINE directive defines the value strings that are to be substituted for the specified variables. When referenc

The conditional and list variables are typically used together to construct portions of the SQL clause based on user

Variables may contain other variables. For example:

```
%DEFINE var1="$ (var2).abc"
```

is permitted. However, circular references (i.e., cycles) are not allowed. For example, the DEFINE declarations bel

```
%DEFINE a="$ (b)"
```

```
%DEFINE b="$ (a)"
```

A quote character (") may be included in a value string by using two consecutive quotes (" "). Further, an empty str

```
%DEFINE x="say ""hello"""
```

```
%DEFINE y=" "
```

result in the variable x with the value `say "hello"` and variable y with the value NULL. By definition, undefined va

Variable Substitution

The "cross-language variable substitution" mechanism of the present invention is a key feature of the macro langua

1. Input data from the HTML Input forms to be inserted into the SQL statements; and
2. SQL query results to be merged into HTML Report forms.

The macro language allows variables to be defined in one of several ways:

1. DEFINE declaration.

For example: %DEFINE varname="value-string"

2. HTML form's

. These variables are set by user inputs or preset by hidden fields in the HTML f

3. Query result variables are automatically set by the DB2 WWW gateway 16 with the values from the SQL query

Variables are referenced in the macro language by using the syntax "\$(variable)", wherein "variable" is the variable

As previously described, a variable may contain other variables (e.g., %DEFINE varx="... \$(var2) ..."). Variabl

Consider the examples below:

```
%DEFINE X="One$(Y)$(Z)"
```

```
%DEFINE Y="Two"
```

```
%HTML.sub.-- INPUT {$(X)%}
```

```
%DEFINE Z="Three"
```

Variable X contains references to variables Y and Z. When the HTML input section is processed, Y is already defin

In addition, a "hidden variables" mechanism is available for the application developer to hide database internal struc

1. Define a variable for each string that should be hidden, and put the DEFINE section for these variables after the
2. In the HTML form section where the variables are referenced, use double dollar instead of single dollar to refere

Consider the following example:

```
_____ %HTML.sub.-- INPUT { Please select field to view:
```

The macro language file 20 above may first be invoked by the URL "http://ibm.com/db2www/example1/input", wh

The macro language file 20 above allows the user to select a field from the customer table. Multiple fields, such as

--	--

<input type="button" value="▼"/>	Name Address Phone Fax	<input type="button" value="Submit Query"/>	%} _____
----------------------------------	------------------------	---	----------

The macro language file 20 is invoked by the following URL: "http://ibm.com/db2www/example3/input", which is

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Search Results -

Terms	Documents
17 and macro command	5

Database:

US Patents Full-Text Database

JPO Abstracts Database

EPO Abstracts Database

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IBM Technical Disclosure Bulletins

Refine Search:

Clear

Search History

Today's Date: 5/21/2000

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT	17 and macro command	5	<u>L8</u>
USPT	macro language	100	<u>L7</u>
USPT	14 and macro same command	4	<u>L6</u>
USPT	14 and macro adj command	0	<u>L5</u>
USPT	keyword same repository or keyword same registry	54	<u>L4</u>
USPT	keyword adj repository or keyword adj registry	0	<u>L3</u>
USPT	11 and macro command	11	<u>L2</u>
USPT	keyword repository or registry	28027	<u>L1</u>

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Search Results -

Terms	Documents
5295059.pn.	1

Database:

US Patents Full Text Database

JPO Abstracts Database

EPO Abstracts Database

Derwent World Patents Index

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Refine Search:

Clear

Search History

Today's Date: 5/21/2000

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT	5295059.pn.	1	<u>L12</u>
USPT	110 and keyword\$	5	<u>L11</u>
USPT	19 and syntax	10	<u>L10</u>
USPT	18 and parser	13	<u>L9</u>
USPT	macro language	100	<u>L8</u>
USPT	marco language	0	<u>L7</u>
USPT	11 and (parser or pars\$)	0	<u>L6</u>
USPT	11 and (parser or parsing)	0	<u>L5</u>
USPT	11 and pars\$	0	<u>L4</u>
USPT	11 and parser	0	<u>L3</u>
USPT	11 and parser or pars\$	28811	<u>L2</u>
USPT	macro adj handler	1	<u>L1</u>

Search Results - Record(s) 1 through 5 of 5 returned.

☐ 1. Document ID: US 6063128 A

L11: Entry 1 of 5

File: USPT

May 16, 2000

US-PAT-NO: 6063128

DOCUMENT-IDENTIFIER: US 6063128 A

TITLE: Object-oriented computerized modeling system

DATE-ISSUED: May 16, 2000

US-CL-CURRENT: 703/6; 345/964, 703/1, 703/7, 706/919

APPL-NO: 8/ 966888

DATE FILED: November 10, 1997

PARENT-CASE:

This is a division of application Ser. No. 08/612,622, filed Mar. 6, 1996, now U.S. Pat. No. 5,815,415. This application claims benefit of provisional application 60/010,234 filed Jan. 19, 1996. This application claims benefit of provisional application 60/011,285, filed Feb. 7, 1996.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 5987242 A

L11: Entry 2 of 5

File: USPT

Nov 16, 1999

US-PAT-NO: 5987242

DOCUMENT-IDENTIFIER: US 5987242 A

TITLE: Object-oriented computerized modeling system

DATE-ISSUED: November 16, 1999

US-CL-CURRENT: 703/13

APPL-NO: 8/ 966890

DATE FILED: November 10, 1997

PARENT-CASE:

This is a division of application Ser. No. 08/612,622, filed Mar. 6, 1996 now U.S. Pat. No. 5,815,415, and based on provisional applications Ser. No. 60/010,234 of Jan. 19, 1996 and Ser. No. 60/011,205 of Feb. 7, 1996.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 3. Document ID: US 5878054 A

L11: Entry 3 of 5

File: USPT

Mar 2, 1999

US-PAT-NO: 5878054
DOCUMENT-IDENTIFIER: US 5878054 A
TITLE: Method and apparatus for test data generation
DATE-ISSUED: March 2, 1999

US-CL-CURRENT: 714/739

APPL-NO: / 054793
DATE FILED: April 3, 1998

PARENT-CASE:
This is a continuation of copending application Ser. No. 08/526,347, filed on Sep. 11, 1995.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 4. Document ID: US 5815415 A

L11: Entry 4 of 5

File: USPT

Sep 29, 1998

US-PAT-NO: 5815415
DOCUMENT-IDENTIFIER: US 5815415 A
TITLE: Computer system for portable persistent modeling
DATE-ISSUED: September 29, 1998

US-CL-CURRENT: 703/4

APPL-NO: 8/ 612622
DATE FILED: March 6, 1996

PARENT-CASE:
This application is a continuation of Provisional Applications 60/010,234 filed Jan. 19, 1996 and 60/011,285 filed Feb . 7, 1996.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 5. Document ID: US 5701400 A

L11: Entry 5 of 5

File: USPT

Dec 23, 1997

US-PAT-NO: 5701400
DOCUMENT-IDENTIFIER: US 5701400 A
TITLE: Method and apparatus for applying if-then-else rules to data sets in a relational data base and generating from the results of application of said rules a database of diagnostics linked to said data sets to aid executive analysis of financial data
DATE-ISSUED: December 23, 1997

US-CL-CURRENT: 706/45; 706/47, 706/60

APPL-NO: 8/ 400355
DATE FILED: March 8, 1995

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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Generate Collection

Terms	Documents
110 and keyword\$	5

Display

800 Documents, starting with Document: 5

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Search Results -

Terms	Documents
4931928.pn.	1

Database:

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IBM Technical Disclosure Bulletins

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USPT	4931928.pn.	1	<u>L7</u>
USPT	5070534.pn.	1	<u>L6</u>
USPT	4949253.pn.	1	<u>L5</u>
USPT	5276880.pn.	1	<u>L4</u>
USPT	5734907.pn.	1	<u>L3</u>
USPT	6031993.pn.	1	<u>L2</u>
USPT	5694539.pn.	1	<u>L1</u>

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Search Results -

Terms	Documents
151 and macro same language	36

Database:
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<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT	151 and macro same language	36	L52
USPT	macro same handler	103	L51
USPT	147 and macro language	4	L50
USPT	146 and macro language	3	L49
USPT	145 and macro language	3	L48
USPT	((345/34\$)!.CCLS.)	1868	L47
USPT	((345/348)!.CCLS.)	492	L46
USPT	((717/8)!.CCLS.)	181	L45
USPT	5694539.pn.	1	L44
USPT	5742828.pn.	1	L43
USPT	4931928.pn.	1	L42
USPT	5678039.pn.	1	L41
USPT	5737592.pn.	1	L40
USPT	5276880.pn.	1	L39
USPT	5734907.pn.	1	L38
USPT	5070534.pn.	1	L37
USPT	5437006.pn.	1	L36

USPT	l34 and expression	16	<u>L35</u>
USPT	l33 and macro language	25	<u>L34</u>
USPT	pars\$20	28773	<u>L33</u>
USPT	l28 and code\$	184	<u>L32</u>
USPT	l28 and macro	45	<u>L31</u>
USPT	l29 and macro	0	<u>L30</u>
USPT	l28 and extended same keyword	3	<u>L29</u>
USPT	l27 and repository	214	<u>L28</u>
USPT	keyword	2589	<u>L27</u>
USPT	keyword repository	0	<u>L26</u>
USPT	l24 and macro same language	20	<u>L25</u>
USPT	l23 and keyword\$	164	<u>L24</u>
USPT	l22 and syntax	690	<u>L23</u>
USPT	parser	1599	<u>L22</u>
USPT	l20 and keyword\$	9	<u>L21</u>
USPT	l19 and syntax	25	<u>L20</u>
USPT	macro language	100	<u>L19</u>
USPT	l17 and parser	218	<u>L18</u>
USPT	l16 and language	41	<u>L17</u>
USPT	l15 and macro	42	<u>L16</u>
USPT	l14 and keyword\$	266	<u>L15</u>
USPT	grammar	1504	<u>L14</u>
USPT	l12 and keyword\$	5	<u>L13</u>
USPT	l8 and macro language	27	<u>L12</u>
USPT	l7 and macro language	2	<u>L11</u>
USPT	l6 and macro language	13	<u>L10</u>
USPT	l5 and macro language	6	<u>L9</u>
USPT	((707/\$)!.CCLS.)	7936	<u>L8</u>
USPT	((712/\$)!.CCLS.)	5798	<u>L7</u>
USPT	((717/\$)!.CCLS.)	2078	<u>L6</u>
USPT	((703/\$)!.CCLS.)	2990	<u>L5</u>
USPT	((703/305)!.CCLS.)	0	<u>L4</u>
USPT	((717/3)!.CCLS.)	158	<u>L3</u>
USPT	((703/3)!.CCLS.)	132	<u>L2</u>
USPT	((712/3)!.CCLS.)	34	<u>L1</u>

Search Results - Record(s) 1 through 27 of 27 returned.

☐ 1. Document ID: US 6055548 A

L12: Entry 1 of 27

File: USPT

Apr 25, 2000

US-PAT-NO: 6055548
DOCUMENT-IDENTIFIER: US 6055548 A
TITLE: Computerized spreadsheet with auto-calculator
DATE-ISSUED: April 25, 2000

US-CL-CURRENT: 707/503; 345/346, 707/538

APPL-NO: 8/ 657353
DATE FILED: June 3, 1996

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 6047299 A

L12: Entry 2 of 27

File: USPT

Apr 4, 2000

US-PAT-NO: 6047299
DOCUMENT-IDENTIFIER: US 6047299 A
TITLE: Document composition supporting method and system, and electronic dictionary for terminology
DATE-ISSUED: April 4, 2000

US-CL-CURRENT: 707/532; 704/10, 707/500, 707/533

APPL-NO: 8/ 827085
DATE FILED: March 26, 1997

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
JP	8-071595	March 27, 1996

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 3. Document ID: US 6044371 A

L12: Entry 3 of 27

File: USPT

Mar 28, 2000

US-PAT-NO: 6044371
DOCUMENT-IDENTIFIER: US 6044371 A
TITLE: Method for modifying computer system and system resulting therefrom
DATE-ISSUED: March 28, 2000

US-CL-CURRENT: 707/6; 707/10, 707/100, 707/101

APPL-NO: 8/ 960900
DATE FILED: October 30, 1997

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 4. Document ID: US 6041 A

File: USPT

Mar 21, 2000

L12: Entry 4 of 27

US-PAT-NO: 6041303

DOCUMENT-IDENTIFIER: US 6041303 A

TITLE: Method of assisting the conducting of a research project

DATE-ISSUED: March 21, 2000

US-CL-CURRENT: 705/1; 707/514, 707/531

APPL-NO: 8/ 870481

DATE FILED: June 6, 1997

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY

APPL-NO

APPL-DATE

ZA

96/4864

June 7, 1996

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 5. Document ID: US 6038562 A

File: USPT

Mar 14, 2000

L12: Entry 5 of 27

US-PAT-NO: 6038562

DOCUMENT-IDENTIFIER: US 6038562 A

TITLE: Interface to support state-dependent web applications accessing a relational database

DATE-ISSUED: March 14, 2000

US-CL-CURRENT: 707/10; 707/101, 707/2, 707/202

APPL-NO: 8/ 708512

DATE FILED: September 5, 1996

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 6. Document ID: US 6002865 A

File: USPT

Dec 14, 1999

L12: Entry 6 of 27

US-PAT-NO: 6002865

DOCUMENT-IDENTIFIER: US 6002865 A

TITLE: Location structure for a multi-dimensional spreadsheet

DATE-ISSUED: December 14, 1999

US-CL-CURRENT: 707/3

APPL-NO: 8/ 425854

DATE FILED: April 20, 1995

PARENT-CASE:

CROSS REFERENCE TO RELATED APPLICATIONS This application is a continuation application under 37 CFR 1.62 of prior application Ser. No. 07/890,635, filed on May 28, 1992 now abandoned.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 7. Document ID: US 5913029 A

File: USPT

Jun 15, 1999

L12: Entry 7 of 27

US-PAT-NO: 5913029
DOCUMENT-IDENTIFIER: US 5913029
TITLE: Distributed database system and method
DATE-ISSUED: June 15, 1999

US-CL-CURRENT: 709/203; 345/357, 707/201

APPL-NO: 8/ 797811
DATE FILED: February 7, 1997

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 8. Document ID: US 5890152 A

L12: Entry 8 of 27

File: USPT

Mar 30, 1999

US-PAT-NO: 5890152
DOCUMENT-IDENTIFIER: US 5890152 A
TITLE: Personal feedback browser for obtaining media files
DATE-ISSUED: March 30, 1999

US-CL-CURRENT: 707/6; 345/333, 345/968, 345/978, 707/104, 707/7

APPL-NO: 8/ 709762
DATE FILED: September 9, 1996

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 9. Document ID: US 5890175 A

L12: Entry 9 of 27

File: USPT

Mar 30, 1999

US-PAT-NO: 5890175
DOCUMENT-IDENTIFIER: US 5890175 A
TITLE: Dynamic generation and display of catalogs
DATE-ISSUED: March 30, 1999

US-CL-CURRENT: 707/505; 705/26

APPL-NO: 8/ 719561
DATE FILED: September 25, 1996

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 10. Document ID: US 5873660 A

L12: Entry 10 of 27

File: USPT

Feb 23, 1999

US-PAT-NO: 5873660
DOCUMENT-IDENTIFIER: US 5873660 A
TITLE: Morphological search and replace
DATE-ISSUED: February 23, 1999

US-CL-CURRENT: 400/63; 400/74, 704/9, 707/540

APPL-NO: 8/ 491750
DATE FILED: June 19, 1995

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 11. Document ID: US 585014 A

L12: Entry 11 of 27

File: USPT

Dec 29, 1998

US-PAT-NO: 5855014

DOCUMENT-IDENTIFIER: US 5855014 A

TITLE: Getfield function for a relational workgroup platform using keyword and workflow databases

DATE-ISSUED: December 29, 1998

US-CL-CURRENT: 707/3; 707/10, 707/201, 707/203

APPL-NO: 8/ 739864

DATE FILED: October 31, 1996

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 12. Document ID: US 5848273 A

L12: Entry 12 of 27

File: USPT

Dec 8, 1998

US-PAT-NO: 5848273

DOCUMENT-IDENTIFIER: US 5848273 A

TITLE: Method for generating OLE automation and IDL interfaces from metadata information

DATE-ISSUED: December 8, 1998

US-CL-CURRENT: 717/1; 707/100, 709/203, 709/328

APPL-NO: 8/ 549352

DATE FILED: October 27, 1995

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 13. Document ID: US 5819303 A

L12: Entry 13 of 27

File: USPT

Oct 6, 1998

US-PAT-NO: 5819303

DOCUMENT-IDENTIFIER: US 5819303 A

TITLE: Information management system which processes multiple languages having incompatible formats

DATE-ISSUED: October 6, 1998

US-CL-CURRENT: 707/536; 704/8

APPL-NO: 8/ 954084

DATE FILED: October 20, 1997

PARENT-CASE:

This application is a continuation of application Ser. No. 08/751,562 filed Nov. 18, 1996, now abandoned, which is a continuation of application Ser. No. 08/312,979, filed Sep. 30, 1994 now abandoned.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 14. Document ID: US 5819062 A

L12: Entry 14 of 27

File: USPT

Oct 6, 1998

US-PAT-NO: 5819062
DOCUMENT-IDENTIFIER: US 5819062
TITLE: Method for converting design intent into a neutral-file-format for computer aided design applications
DATE-ISSUED: October 6, 1998

US-CL-CURRENT: 716/11; 345/440, 703/6, 707/200

APPL-NO: 8/ 349596
DATE FILED: December 5, 1994

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 15. Document ID: US 5812983 A

L12: Entry 15 of 27

File: USPT

Sep 22, 1998

US-PAT-NO: 5812983
DOCUMENT-IDENTIFIER: US 5812983 A
TITLE: Computed medical file and chart system
DATE-ISSUED: September 22, 1998

US-CL-CURRENT: 705/3; 705/2, 707/503, 708/290, 711/113

APPL-NO: 8/ 510665
DATE FILED: August 3, 1995

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 16. Document ID: US 5758351 A

L12: Entry 16 of 27

File: USPT

May 26, 1998

US-PAT-NO: 5758351
DOCUMENT-IDENTIFIER: US 5758351 A
TITLE: System and method for the creation and use of surrogate information system objects
DATE-ISSUED: May 26, 1998

US-CL-CURRENT: 707/104; 345/347, 345/348, 345/352, 707/10, 707/103, 707/3

APPL-NO: 8/ 397699
DATE FILED: March 1, 1995

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 17. Document ID: US 5737592 A

L12: Entry 17 of 27

File: USPT

Apr 7, 1998

US-PAT-NO: 5737592
DOCUMENT-IDENTIFIER: US 5737592 A
TITLE: Accessing a relational database over the Internet using macro language files
DATE-ISSUED: April 7, 1998

US-CL-CURRENT: 707/4; 707/10, 707/2

APPL-NO: 8/ 491742
DATE FILED: June 19, 1995

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 18. Document ID: US 56802 A

L12: Entry 18 of 27

File: USPT

Oct 28, 1997

US-PAT-NO: 5682532

DOCUMENT-IDENTIFIER: US 5682532 A

TITLE: System and method having programmable containers with functionality for managing objects

DATE-ISSUED: October 28, 1997

US-CL-CURRENT: 709/316; 707/103, 709/318

APPL-NO: 8/ 237357

DATE FILED: May 2, 1994

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 19. Document ID: US 5678039 A

L12: Entry 19 of 27

File: USPT

Oct 14, 1997

US-PAT-NO: 5678039

DOCUMENT-IDENTIFIER: US 5678039 A

TITLE: System and methods for translating software into localized versions

DATE-ISSUED: October 14, 1997

US-CL-CURRENT: 707/4; 345/335, 707/203, 707/3, 707/533, 707/6

APPL-NO: 8/ 316690

DATE FILED: September 30, 1994

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 20. Document ID: US 5564050 A

L12: Entry 20 of 27

File: USPT

Oct 8, 1996

US-PAT-NO: 5564050

DOCUMENT-IDENTIFIER: US 5564050 A

TITLE: System and method for enabling an interpreted programming language to be executed in a database management system environment

DATE-ISSUED: October 8, 1996

US-CL-CURRENT: 707/4; 395/500

APPL-NO: 8/ 471510

DATE FILED: June 6, 1995

PARENT-CASE:

This application is a continuation division of application Ser. No. 07/904,416, filed Jun. 25, 1992, now U.S. Pat. No. 5,442,779.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 21. Document ID: US 5537529 A

L12: Entry 21 of 27

File: USPT

Jul 16, 1996

US-PAT-NO: 5537529
DOCUMENT-IDENTIFIER: US 5537529
TITLE: Apparatus and method for creating versions of computer models and creating communications incorporating created versions therefrom
DATE-ISSUED: July 16, 1996

US-CL-CURRENT: 707/511; 345/302, 345/326, 345/501, 348/699, 707/512

APPL-NO: 8/ 051531
DATE FILED: April 22, 1993

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 22. Document ID: US 5442779 A

L12: Entry 22 of 27

File: USPT

Aug 15, 1995

US-PAT-NO: 5442779
DOCUMENT-IDENTIFIER: US 5442779 A
TITLE: System and method for enabling an interpreted programming language to be executed in a database management system environment
DATE-ISSUED: August 15, 1995

US-CL-CURRENT: 707/4; 364/280, 364/280.4, 364/282.1, 364/DIG.1, 395/500

APPL-NO: 7/ 904416
DATE FILED: June 25, 1992

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☒ 23. Document ID: US 5437006 A

L12: Entry 23 of 27

File: USPT

Jul 25, 1995

US-PAT-NO: 5437006
DOCUMENT-IDENTIFIER: US 5437006 A
TITLE: Spreadsheet command/function capability from a dynamic-link library
DATE-ISSUED: July 25, 1995

US-CL-CURRENT: 707/503

APPL-NO: 8/ 009919
DATE FILED: January 27, 1993

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 24. Document ID: US 5339392 A

L12: Entry 24 of 27

File: USPT

Aug 16, 1994

US-PAT-NO: 5339392
DOCUMENT-IDENTIFIER: US 5339392 A
TITLE: Apparatus and method for creation of a user definable video displayed document showing changes in real time data
DATE-ISSUED: August 16, 1994

US-CL-CURRENT: 345/333; 345/334, 707/501

APPL-NO: 7/ 636044
DATE FILED: December 28, 1990

PARENT-CASE:

This is a continuation-in-part application of a prior co-pending U.S. patent application entitled "APPARATUS AND METHOD FOR PROVIDING DECOUPLING OF DATA EXCHANGE DETAILS AND PROVIDING HIGH PERFORMANCE COMMUNICATION BETWEEN SOFTWARE PROCESSES", Ser. No. 07/632,551, filed Dec. 21, 1990, which was a continuation-in-part of a prior co-pending U.S. patent application entitled "APPARATUS AND METHOD FOR PROVIDING DECOUPLING OF DATA EXCHANGE DETAILS AND PROVIDING HIGH PERFORMANCE COMMUNICATION BETWEEN SOFTWARE PROCESSES", Ser. No. 07/601,117, filed Oct. 22, 1990, now U.S. Pat. No. 5,257,369, which was a continuation-in-part of a prior co-pending U.S. patent application entitled "APPARATUS AND METHOD FOR PROVIDING DECOUPLING OF DATA EXCHANGE DETAILS AND PROVIDING HIGH PERFORMANCE COMMUNICATION BETWEEN SOFTWARE PROCESSES", Ser. No. 07/386,584, filed Jul. 27, 1989, now U.S. Pat. No. 5,187,787.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Draw Desc	Image
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☐ 25. Document ID: US 5222236 A

L12: Entry 25 of 27

File: USPT

Jun 22, 1993

US-PAT-NO: 5222236
DOCUMENT-IDENTIFIER: US 5222236 A
TITLE: Multiple integrated document assembly data processing system
DATE-ISSUED: June 22, 1993

US-CL-CURRENT: 707/102; 364/222.81, 364/222.82, 364/225.6, 364/225.8, 364/943, 364/943.43, 364/962.1, 364/962.2, 364/974.3, 364/974.4, 364/DIG.1, 364/DIG.2, 707/200, 707/522, 707/539

APPL-NO: 7/ 751676
DATE FILED: August 23, 1991

PARENT-CASE:

This is a continuation of application Ser. No. 07/188,777, filed Apr. 29, 1988, now abandoned.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Draw Desc	Image
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☐ 26. Document ID: US 5043891 A

L12: Entry 26 of 27

File: USPT

Aug 27, 1991

US-PAT-NO: 5043891
DOCUMENT-IDENTIFIER: US 5043891 A
TITLE: Document generation apparatus and methods
DATE-ISSUED: August 27, 1991

US-CL-CURRENT: 707/531; 706/902, 707/530

APPL-NO: 7/ 403256
DATE FILED: September 5, 1989

PARENT-CASE:

CROSS-REFERENCES TO RELATED APPLICATIONS This application is a continuation-in-part of U.S. Ser. No. 371,434, filed 6/5/89, now U.S. Pat. No. 4,967,368 which in turn is a continuation-in-part of U.S. Ser. No. 030,250, filed 3/24/87, now U.S. Pat. No. 4,916,633 which itself is a continuation of U.S. Ser. No. 766,860, filed 8/16/85, now abandoned. The additional disclosure of the present application begins at Section 23 of the Description of a Preferred Embodiment and includes new FIGS. 10-14.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☒ 27. Document ID: US 4931928 A

L12: Entry 27 of 27

File: USPT

Jun 5, 1990

US-PAT-NO: 4931928

DOCUMENT-IDENTIFIER: US 4931928 A

TITLE: Apparatus for analyzing source code

DATE-ISSUED: June 5, 1990

US-CL-CURRENT: 717/8; 707/3

APPL-NO: 7/ 269135

DATE FILED: November 9, 1988

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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Generate Collection

Terms	Documents
l8 and macro language	27

Display

800

Documents, starting with Document:

27

Display Format: DT

Change Format

[Help](#)[Logout](#)[Interrupt](#)[Main Menu](#)[Search Form](#)[Posting Counts](#)[Show S Numbers](#)[Edit S Numbers](#)[Preferences](#)**Search Results -**

Terms	Documents
19 and property	107

Database:

US Patents Full Text Database

JPO Abstracts Database

EPO Abstracts Database

Derwent World Patents Index

IBM Technical Disclosure Bulletins

Refine Search:

Clear

Search History**Today's Date: 5/15/2000**

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT	19 and property	107	<u>L10</u>
USPT	18 and token	272	<u>L9</u>
USPT	17 and parser	698	<u>L8</u>
USPT	16 and grammar or syntax	4708	<u>L7</u>
USPT	macro	12431	<u>L6</u>
USPT	11 and parser	12	<u>L5</u>
USPT	12 and directory	7	<u>L4</u>
USPT	12 and registry	0	<u>L3</u>
USPT	11 and keyword\$	14	<u>L2</u>
USPT	macro language	97	<u>L1</u>

Search Results - Record(s) 1 through 12 of 12 returned.

☒ 1. Document ID: US 5987242 A

L5: Entry 1 of 12

File: USPT

Nov 16, 1999

US-PAT-NO: 5987242

DOCUMENT-IDENTIFIER: US 5987242 A

TITLE: Object-oriented computerized modeling system

DATE-ISSUED: November 16, 1999

US-CL-CURRENT: 703/13

APPL-NO: 8/ 966890

DATE FILED: November 10, 1997

PARENT-CASE:

This is a division of application Ser. No. 08/612,622, filed Mar. 6, 1996 now U.S. Pat. No. 5,815,415, and based on provisional applications Ser. No. 60/010,234 of Jan. 19, 1996 and Ser. No. 60/011,205 of Feb. 7, 1996.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 5968113 A

L5: Entry 2 of 12

File: USPT

Oct 19, 1999

US-PAT-NO: 5968113

DOCUMENT-IDENTIFIER: US 5968113 A

TITLE: Computer process resource modelling method and apparatus

DATE-ISSUED: October 19, 1999

US-CL-CURRENT: 714/38

APPL-NO: 8/ 910569

DATE FILED: August 1, 1997

PARENT-CASE:

This application is a division of application Ser. No. 08/289,148, filed Aug. 10, 1994 now U.S. Pat. No. 5,694,539.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 3. Document ID: US 5878054 A

L5: Entry 3 of 12

File: USPT

Mar 2, 1999

US-PAT-NO: 5878054

DOCUMENT-IDENTIFIER: US 5878054 A

TITLE: Method and apparatus for test data generation

DATE-ISSUED: March 2, 1999

US-CL-CURRENT: 714/739

APPL-NO: / 054793

DATE FILED: April 3, 1998

PARENT-CASE:

This is a continuation of copending application Ser. No. 08/526,347, filed on Sep. 11, 1995.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 4. Document ID: US 5857071 A

L5: Entry 4 of 12

File: USPT

Jan 5, 1999

US-PAT-NO: 5857071

DOCUMENT-IDENTIFIER: US 5857071 A

TITLE: Computer process resource modelling method and apparatus

DATE-ISSUED: January 5, 1999

US-CL-CURRENT: 714/38; 714/51, 717/4

APPL-NO: 8/ 902714

DATE FILED: July 30, 1997

PARENT-CASE:

This application is a division of application Ser. No. 08/289,148, filed Aug. 10, 1994, now U.S. Pat. No. 5,694,539.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 5. Document ID: US 5815415 A

L5: Entry 5 of 12

File: USPT

Sep 29, 1998

US-PAT-NO: 5815415

DOCUMENT-IDENTIFIER: US 5815415 A

TITLE: Computer system for portable persistent modeling

DATE-ISSUED: September 29, 1998

US-CL-CURRENT: 703/4

APPL-NO: 8/ 612622

DATE FILED: March 6, 1996

PARENT-CASE:

This application is a continuation of Provisional Applications 60/010,234 filed Jan. 19, 1996 and 60/011,285 filed Feb . 7, 1996.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 6. Document ID: US 5790778 A

L5: Entry 6 of 12

File: USPT

Aug 4, 1998

US-PAT-NO: 5790778

DOCUMENT-IDENTIFIER: US 5790778 A

TITLE: Simulated program execution error detection method and apparatus

DATE-ISSUED: August 4, 1998

US-CL-CURRENT: 714/38; 714/34, 717/4

APPL-NO: 8/ 694470

DATE FILED: August 7, 1996

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 7. Document ID: US 5758351 A

US-PAT-NO: 5758351

DOCUMENT-IDENTIFIER: US 5758351 A

TITLE: System and method for the creation and use of surrogate information system objects

DATE-ISSUED: May 26, 1998

US-CL-CURRENT: 707/104; 345/347, 345/348, 345/352, 707/10, 707/103, 707/3

APPL-NO: 8/ 397699

DATE FILED: March 1, 1995

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 8. Document ID: US 5712960 A

L5: Entry 8 of 12

File: USPT

Jan 27, 1998

US-PAT-NO: 5712960

DOCUMENT-IDENTIFIER: US 5712960 A

TITLE: System and methods for intelligent database management using abductive reasoning

DATE-ISSUED: January 27, 1998

US-CL-CURRENT: 706/61

APPL-NO: 8/ 641013

DATE FILED: April 15, 1996

PARENT-CASE:

This is a continuation of application of Ser. No. 08/086,969 filed Jul. 2, 1993, now abandoned.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 9. Document ID: US 5701400 A

L5: Entry 9 of 12

File: USPT

Dec 23, 1997

US-PAT-NO: 5701400

DOCUMENT-IDENTIFIER: US 5701400 A

TITLE: Method and apparatus for applying if-then-else rules to data sets in a relational data base and generating from the results of application of said rules a database of diagnostics linked to said data sets to aid executive analysis of financial data

DATE-ISSUED: December 23, 1997

US-CL-CURRENT: 706/45; 706/47, 706/60

APPL-NO: 8/ 400355

DATE FILED: March 8, 1995

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 10. Document ID: US 5694539 A

L5: Entry 10 of 12

File: USPT

Dec 2, 1997

US-PAT-NO: 5694539
DOCUMENT-IDENTIFIER: US 5694 A
TITLE: Computer process resource modelling method and apparatus
DATE-ISSUED: December 2, 1997

US-CL-CURRENT: 714/38; 717/4

APPL-NO: 8/ 289148
DATE FILED: August 10, 1994

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 11. Document ID: US 5678039 A

L5: Entry 11 of 12

File: USPT

Oct 14, 1997

US-PAT-NO: 5678039
DOCUMENT-IDENTIFIER: US 5678039 A
TITLE: System and methods for translating software into localized versions
DATE-ISSUED: October 14, 1997

US-CL-CURRENT: 707/4; 345/335, 707/203, 707/3, 707/533, 707/6

APPL-NO: 8/ 316690
DATE FILED: September 30, 1994

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 12. Document ID: US 4931928 A

L5: Entry 12 of 12

File: USPT

Jun 5, 1990

US-PAT-NO: 4931928
DOCUMENT-IDENTIFIER: US 4931928 A
TITLE: Apparatus for analyzing source code
DATE-ISSUED: June 5, 1990

US-CL-CURRENT: 717/8; 707/3

APPL-NO: 7/ 269135
DATE FILED: November 9, 1988

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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Generate Collection

Terms	Documents
ll and parser	12

Display

800

Documents, starting with Document:

12

Display Format:

DT

Change Format

[Help](#)[Logout](#)[Main Menu](#)[Search Form](#)[Posting Counts](#)[Show S Numbers](#)[Edit S Numbers](#)**Search Results -**

Terms	Documents
15 and keyword same registry or keyword same directory	98

Database: US Patents Full-Text Database ▼

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Search History

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT	15 and keyword same registry or keyword same directory	98	<u>L7</u>
USPT	15 and keyword	8	<u>L6</u>
USPT	11 and syntax	24	<u>L5</u>
USPT	11 and macro same handler	5	<u>L4</u>
USPT	11 and macro handler	0	<u>L3</u>
USPT	11 and extensible	8	<u>L2</u>
USPT	macro language	97	<u>L1</u>

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Search Results - Record(s) 1 through 97 of 97 returned.

☐ 1. Document ID: US 6061514 A

Entry 1 of 97

File: USPT

May 9, 2000

US-PAT-NO: 6061514

DOCUMENT-IDENTIFIER: US 6061514 A

TITLE: Device for generating source programs of multiple kinds of assembler languages from extended tree structure chart by applying the same source generation rules

DATE-ISSUED: May 9, 2000

APPL-NO: 8/ 833644

DATE FILED: April 8, 1997

FOREIGN-APPL-PRIORITY-DATA:

FOREIGN-PRIORITY-APPL-NO: JP 8-088346

FOREIGN-PRIORITY-APPL-DATE: April 10, 1996

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 2. Document ID: US 6055548 A

Entry 2 of 97

File: USPT

Apr 25, 2000

US-PAT-NO: 6055548

DOCUMENT-IDENTIFIER: US 6055548 A

TITLE: Computerized spreadsheet with auto-calculator

DATE-ISSUED: April 25, 2000

US-CL-CURRENT: 707/503; 345/346, 707/538

APPL-NO: 8/ 657353

DATE FILED: June 3, 1996

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 3. Document ID: US 6049671 A

Entry 3 of 97

File: USPT

Apr 11, 2000

US-PAT-NO: 6049671

DOCUMENT-IDENTIFIER: US 6049671 A

TITLE: Method for identifying and obtaining computer software from a network computer

DATE-ISSUED: April 11, 2000

US-CL-CURRENT: 717/11

APPL-NO: 8/ 634390

DATE FILED: April 18, 1996

PARENT-CASE:

This application is related to application Ser. No. 08/562,929, "Method and System for Identifying and Obtaining Software from a Remote Computer," filed Nov. 27, 1995 by Philip E. Fawcett now U.S. Pat. No. 5,845,077.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 4. Document ID: US 6047299 A

Entry 4 of 97

File: USPT

Apr 4, 2000

US-PAT-NO: 6047299
DOCUMENT-IDENTIFIER: US 6047299 A
TITLE: Document composition supporting method and system, and electronic dictionary for terminology
DATE-ISSUED: April 4, 2000
US-CL-CURRENT: 707/532; 704/10, 707/500, 707/533
APPL-NO: 8/ 827085
DATE FILED: March 26, 1997
FOREIGN-APPL-PRIORITY-DATA:
FOREIGN-PRIORITY-APPL-NO: JP 8-071595
FOREIGN-PRIORITY-APPL-DATE: March 27, 1996

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 5. Document ID: US 6044371 A

Entry 5 of 97

File: USPT

Mar 28, 2000

US-PAT-NO: 6044371
DOCUMENT-IDENTIFIER: US 6044371 A
TITLE: Method for modifying computer system and system resulting therefrom
DATE-ISSUED: March 28, 2000
US-CL-CURRENT: 707/6; 707/10, 707/100, 707/101
APPL-NO: 8/ 960900
DATE FILED: October 30, 1997

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☒ 6. Document ID: US 6041303 A

Entry 6 of 97

File: USPT

Mar 21, 2000

US-PAT-NO: 6041303
DOCUMENT-IDENTIFIER: US 6041303 A
TITLE: Method of assisting the conducting of a research project
DATE-ISSUED: March 21, 2000
US-CL-CURRENT: 705/1; 707/514, 707/531
APPL-NO: 8/ 870481
DATE FILED: June 6, 1997
FOREIGN-APPL-PRIORITY-DATA:
FOREIGN-PRIORITY-APPL-NO: ZA 96/4864
FOREIGN-PRIORITY-APPL-DATE: June 7, 1996

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 7. Document ID: US 6038562 A

Entry 7 of 97

File: USPT

Mar 14, 2000

US-PAT-NO: 6038562
DOCUMENT-IDENTIFIER: US 6038562 A
TITLE: Interface to support state-dependent web applications accessing a relational database
DATE-ISSUED: March 14, 2000
US-CL-CURRENT: 707/10; 707/101, 707/2, 707/202
APPL-NO: 8/ 708512
DATE FILED: September 5, 1996

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 8. Document ID: US 6034676 A

Entry 8 of 97

File: USPT

Mar 7, 2000

US-PAT-NO: 6034676
DOCUMENT-IDENTIFIER: US 6034676 A
TITLE: System and method for measuring and processing tire depth data
DATE-ISSUED: March 7, 2000
US-CL-CURRENT: 345/326
APPL-NO: 8/ 891429
DATE FILED: July 14, 1997
PARENT-CASE:

This is a continuation in part application of application Ser. No. 08/420,012 filed Apr. 11, 1995 now U.S. Pat. No. 5,657,460. This application claims priority from U.S. Provisional Application No. 60/027,029 filed Sept. 24, 1996.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 9. Document ID: US 6002865 A

Entry 9 of 97

File: USPT

Dec 14, 1999

US-PAT-NO: 6002865

DOCUMENT-IDENTIFIER: US 6002865 A

TITLE: Location structure for a multi-dimensional spreadsheet

DATE-ISSUED: December 14, 1999

US-CL-CURRENT: 707/3

APPL-NO: 8/ 425854

DATE FILED: April 20, 1995

PARENT-CASE:

CROSS REFERENCE TO RELATED APPLICATIONS This application is a continuation application under 37 CFR 1.62 of prior application Ser. No. 07/890,635, filed on May 28, 1992 now abandoned.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 10. Document ID: US 5998139 A

Entry 10 of 97

File: USPT

Dec 7, 1999

US-PAT-NO: 5998139

DOCUMENT-IDENTIFIER: US 5998139 A

TITLE: Assay for determination of neuronal activity in brain tissue

DATE-ISSUED: December 7, 1999

US-CL-CURRENT: 435/6; 435/40.5, 435/40.52, 536/24.31

APPL-NO: 8/ 838769

DATE FILED: April 10, 1997

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 11. Document ID: US 5987242 A

Entry 11 of 97

File: USPT

Nov 16, 1999

US-PAT-NO: 5987242

DOCUMENT-IDENTIFIER: US 5987242 A

TITLE: Object-oriented computerized modeling system

DATE-ISSUED: November 16, 1999

US-CL-CURRENT: 703/13

APPL-NO: 8/ 966890

DATE FILED: November 10, 1997

PARENT-CASE:

This is a division of application Ser. No. 08/612,622, filed Mar. 6, 1996 now U.S. Pat. No. 5,815,415, and based on provisional applications Ser. No. 60/010,234 of Jan. 19, 1996 and Ser. No. 60/011,205 of Feb. 7, 1996.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 12. Document ID: US 5978917 A

Entry 12 of 97

File: USPT

Nov 2, 1999

US-PAT-NO: 5978917

DOCUMENT-IDENTIFIER: US 5978917 A

TITLE: Detection and elimination of macro viruses

DATE-ISSUED: November 2, 1999

US-CL-CURRENT: 713/201; 713/188, 713/200

APPL-NO: 8/ 911298

DATE FILED: August 14, 1997

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☒ 13. Document ID: US 5968113 A

Entry 13 of 97

File: USPT

Oct 19, 1999

US-PAT-NO: 5968113
DOCUMENT-IDENTIFIER: US 5968113 A
TITLE: Computer process resource modelling method and apparatus
DATE-ISSUED: October 19, 1999
US-CL-CURRENT: 714/38
APPL-NO: 8/ 910569
DATE FILED: August 1, 1997
PARENT-CASE:
This application is a division of application Ser. No. 08/289,148, filed Aug. 10, 1994 now U.S. Pat. No. 5,694,539.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 14. Document ID: US 5969835 A

Entry 14 of 97 File: USPT Oct 19, 1999
US-PAT-NO: 5969835
DOCUMENT-IDENTIFIER: US 5969835 A
TITLE: Automated infrared test signal generator
DATE-ISSUED: October 19, 1999
US-CL-CURRENT: 359/110; 340/825.72, 348/734, 359/142, 455/151.2
APPL-NO: 8/ 929547
DATE FILED: September 15, 1997

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 15. Document ID: US 5943242 A

Entry 15 of 97 File: USPT Aug 24, 1999
US-PAT-NO: 5943242
DOCUMENT-IDENTIFIER: US 5943242 A
TITLE: Dynamically reconfigurable data processing system
DATE-ISSUED: August 24, 1999
US-CL-CURRENT: 716/17; 712/11, 712/14, 712/18
APPL-NO: 8/ 544435
DATE FILED: November 17, 1995

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 16. Document ID: US 5917905 A

Entry 16 of 97 File: USPT Jun 29, 1999
US-PAT-NO: 5917905
DOCUMENT-IDENTIFIER: US 5917905 A
TITLE: Telephone station equipment employing rewriteable display keys
DATE-ISSUED: June 29, 1999
US-CL-CURRENT: 379/356; 379/368, 379/387, 379/93.05, 379/93.17
APPL-NO: 8/ 800310
DATE FILED: February 14, 1997
PARENT-CASE:
CROSS REFERENCES TO RELATED APPLICATIONS The present patent application is a continuation-in-part of U.S. Ser. No. 08/615,591, Gerald Gulley et al, filed Mar. 12, 1996 and having the same title and assignee as the present patent application now U.S. Pat. No. 5,790,652. The present patent application contains the entire Detailed Description and Drawing of the parent application. The new material begins with the section Other Embodiments and Applications of the Phone Device.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 17. Document ID: US 5917500 A

Entry 17 of 97 File: USPT Jun 29, 1999
US-PAT-NO: 5917500
DOCUMENT-IDENTIFIER: US 5917500 A
TITLE: Intellectual structure for visualization of n-dimensional space utilizing a parallel coordinate system
DATE-ISSUED: June 29, 1999
US-CL-CURRENT: 345/440
APPL-NO: 9/ 002617
DATE FILED: January 5, 1998

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 18. Document ID: US 5913029 A

Entry 18 of 97

File: USPT

Jun 15, 1999

US-PAT-NO: 5913029
DOCUMENT-IDENTIFIER: US 5913029 A
TITLE: Distributed database system and method
DATE-ISSUED: June 15, 1999
US-CL-CURRENT: 709/203; 345/357, 707/201
APPL-NO: 8/ 797811
DATE FILED: February 7, 1997

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 19. Document ID: US 5890152 A

Entry 19 of 97

File: USPT

Mar 30, 1999

US-PAT-NO: 5890152
DOCUMENT-IDENTIFIER: US 5890152 A
TITLE: Personal feedback browser for obtaining media files
DATE-ISSUED: March 30, 1999
US-CL-CURRENT: 707/6; 345/333, 345/968, 345/978, 707/104, 707/7
APPL-NO: 8/ 709762
DATE FILED: September 9, 1996

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 20. Document ID: US 5890175 A

Entry 20 of 97

File: USPT

Mar 30, 1999

US-PAT-NO: 5890175
DOCUMENT-IDENTIFIER: US 5890175 A
TITLE: Dynamic generation and display of catalogs
DATE-ISSUED: March 30, 1999
US-CL-CURRENT: 707/505; 705/26
APPL-NO: 8/ 719561
DATE FILED: September 25, 1996

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 21. Document ID: US 5878054 A

Entry 21 of 97

File: USPT

Mar 2, 1999

US-PAT-NO: 5878054
DOCUMENT-IDENTIFIER: US 5878054 A
TITLE: Method and apparatus for test data generation
DATE-ISSUED: March 2, 1999
US-CL-CURRENT: 714/739
APPL-NO: / 054793
DATE FILED: April 3, 1998
PARENT-CASE:
This is a continuation of copending application Ser. No. 08/526,347, filed on Sep. 11, 1995.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 22. Document ID: US 5873660 A

Entry 22 of 97

File: USPT

Feb 23, 1999

US-PAT-NO: 5873660
DOCUMENT-IDENTIFIER: US 5873660 A
TITLE: Morphological search and replace
DATE-ISSUED: February 23, 1999
US-CL-CURRENT: 400/63; 400/74, 704/9, 707/540
APPL-NO: 8/ 491750
DATE FILED: June 19, 1995

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 23. Document ID: US 5872976 A

Entry 23 of 97

File: USPT

Feb 16, 1999

US-PAT-NO: 5872976

DOCUMENT-IDENTIFIER: US 5872976 A

TITLE: Client-based system for monitoring the performance of application programs

DATE-ISSUED: February 16, 1999

US-CL-CURRENT: 717/4; 709/320, 714/47

APPL-NO: 8/ 831350

DATE FILED: April 1, 1997

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Image
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☐ 24. Document ID: US 5857071 A

Entry 24 of 97

File: USPT

Jan 5, 1999

US-PAT-NO: 5857071

DOCUMENT-IDENTIFIER: US 5857071 A

TITLE: Computer process resource modelling method and apparatus

DATE-ISSUED: January 5, 1999

US-CL-CURRENT: 714/38; 714/51, 717/4

APPL-NO: 8/ 902714

DATE FILED: July 30, 1997

PARENT-CASE:

This application is a division of application Ser. No. 08/289,148, filed Aug. 10, 1994, now U.S. Pat. No. 5,694,539.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Image
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☐ 25. Document ID: US 5855014 A

Entry 25 of 97

File: USPT

Dec 29, 1998

US-PAT-NO: 5855014

DOCUMENT-IDENTIFIER: US 5855014 A

TITLE: Getfield function for a relational workgroup platform using keyword and workflow databases

DATE-ISSUED: December 29, 1998

US-CL-CURRENT: 707/3; 707/10, 707/201, 707/203

APPL-NO: 8/ 739864

DATE FILED: October 31, 1996

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Image
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☐ 26. Document ID: US 5848273 A

Entry 26 of 97

File: USPT

Dec 8, 1998

US-PAT-NO: 5848273

DOCUMENT-IDENTIFIER: US 5848273 A

TITLE: Method for generating OLE automation and IDL interfaces from metadata information

DATE-ISSUED: December 8, 1998

US-CL-CURRENT: 717/1; 707/100, 709/203, 709/328

APPL-NO: 8/ 549352

DATE FILED: October 27, 1995

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Image
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☐ 27. Document ID: US 5845077 A

Entry 27 of 97

File: USPT

Dec 1, 1998

US-PAT-NO: 5845077

DOCUMENT-IDENTIFIER: US 5845077 A

TITLE: Method and system for identifying and obtaining computer software from a remote computer

DATE-ISSUED: December 1, 1998

US-CL-CURRENT: 709/221; 717/11

APPL-NO: 8/ 562929

DATE FILED: November 27, 1995

☐ 28. Document ID: US 5835374 A

Entry 28 of 97

File: USPT

Nov 10, 1998

US-PAT-NO: 5835374
DOCUMENT-IDENTIFIER: US 5835374 A
TITLE: CAD apparatus
DATE-ISSUED: November 10, 1998
US-CL-CURRENT: 700/87; 700/83, 702/155
APPL-NO: 8/ 795834
DATE FILED: February 6, 1997
FOREIGN-APPL-PRIORITY-DATA:
FOREIGN-PRIORITY-APPL-NO: JP 8-045489
FOREIGN-PRIORITY-APPL-DATE: February 6, 1996

☐ 29. Document ID: US 5832208 A

Entry 29 of 97

File: USPT

Nov 3, 1998

US-PAT-NO: 5832208
DOCUMENT-IDENTIFIER: US 5832208 A
TITLE: Anti-virus agent for use with databases and mail servers
DATE-ISSUED: November 3, 1998
US-CL-CURRENT: 713/201; 709/206, 713/188, 713/200
APPL-NO: 8/ 709025
DATE FILED: September 5, 1996

☐ 30. Document ID: US 5826020 A

Entry 30 of 97

File: USPT

Oct 20, 1998

US-PAT-NO: 5826020
DOCUMENT-IDENTIFIER: US 5826020 A
TITLE: Workflow real time intervention
DATE-ISSUED: October 20, 1998
US-CL-CURRENT: 709/202; 709/201, 709/226, 709/238
APPL-NO: 8/ 715886
DATE FILED: September 18, 1996
PARENT-CASE:
This is a continuation of application Ser. No. 08/315,469 filed on Sep. 30, 1994, now abandoned.

☐ 31. Document ID: US 5819303 A

Entry 31 of 97

File: USPT

Oct 6, 1998

US-PAT-NO: 5819303
DOCUMENT-IDENTIFIER: US 5819303 A
TITLE: Information management system which processes multiple languages having incompatible formats
DATE-ISSUED: October 6, 1998
US-CL-CURRENT: 707/536; 704/8
APPL-NO: 8/ 954084
DATE FILED: October 20, 1997
PARENT-CASE:
This application is a continuation of application Ser. No. 08/751,562 filed Nov. 18, 1996, now abandoned, which is a continuation of application Ser. No. 08/312,979, filed Sep. 30, 1994 now abandoned.

☐ 32. Document ID: US 5819062 A

Entry 32 of 97

File: USPT

Oct 6, 1998

US-PAT-NO: 5819062
DOCUMENT-IDENTIFIER: US 5819062 A
TITLE: Method for converting design intent into a neutral-file-format for computer aided design applications
DATE-ISSUED: October 6, 1998
US-CL-CURRENT: 716/11; 345/440, 703/6, 707/200
APPL-NO: 8/ 349596
DATE FILED: December 5, 1994

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 33. Document ID: US 5815415 A

Entry 33 of 97

File: USPT

Sep 29, 1998

US-PAT-NO: 5815415
DOCUMENT-IDENTIFIER: US 5815415 A
TITLE: Computer system for portable persistent modeling
DATE-ISSUED: September 29, 1998
US-CL-CURRENT: 703/4
APPL-NO: 8/ 612622
DATE FILED: March 6, 1996
PARENT-CASE:
This application is a continuation of Provisional Applications 60/010,234 filed Jan. 19, 1996 and 60/011,285 filed Feb . 7, 1996.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 34. Document ID: US 5812983 A

Entry 34 of 97

File: USPT

Sep 22, 1998

US-PAT-NO: 5812983
DOCUMENT-IDENTIFIER: US 5812983 A
TITLE: Computed medical file and chart system
DATE-ISSUED: September 22, 1998
US-CL-CURRENT: 705/3; 705/2, 707/503, 708/290, 711/113
APPL-NO: 8/ 510665
DATE FILED: August 3, 1995

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 35. Document ID: US 5790652 A

Entry 35 of 97

File: USPT

Aug 4, 1998

US-PAT-NO: 5790652
DOCUMENT-IDENTIFIER: US 5790652 A
TITLE: Telephone station equipment employing rewriteable display keys
DATE-ISSUED: August 4, 1998
US-CL-CURRENT: 379/368; 379/110.01, 379/356, 379/433
APPL-NO: 8/ 615591
DATE FILED: March 12, 1996

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 36. Document ID: US 5790778 A

Entry 36 of 97

File: USPT

Aug 4, 1998

US-PAT-NO: 5790778
DOCUMENT-IDENTIFIER: US 5790778 A
TITLE: Simulated program execution error detection method and apparatus
DATE-ISSUED: August 4, 1998
US-CL-CURRENT: 714/38; 714/34, 717/4
APPL-NO: 8/ 694470
DATE FILED: August 7, 1996

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 37. Document ID: US 5781190 A

Entry 37 of 97

File: USPT

Jul 14, 1998

8 of 22

US-PAT-NO: 5781190
DOCUMENT-IDENTIFIER: US 5781190 A
TITLE: Method and system for transferring a slide presentation between computers
DATE-ISSUED: July 14, 1998
US-CL-CURRENT: 345/335; 709/200
APPL-NO: 8/ 655228
DATE FILED: June 5, 1996

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Image
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☐ 38. Document ID: US 5778228 A

Entry 38 of 97

File: USPT

Jul 7, 1998

US-PAT-NO: 5778228
DOCUMENT-IDENTIFIER: US 5778228 A
TITLE: Method and system for transferring remote procedure calls and responses over a network
DATE-ISSUED: July 7, 1998
US-CL-CURRENT: 709/328; 709/219
APPL-NO: 8/ 291228
DATE FILED: August 16, 1994

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Image
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☐ 39. Document ID: US 5771384 A

Entry 39 of 97

File: USPT

Jun 23, 1998

US-PAT-NO: 5771384
DOCUMENT-IDENTIFIER: US 5771384 A
TITLE: Method and system for replacement and extension of container interfaces
DATE-ISSUED: June 23, 1998
US-CL-CURRENT: 709/318
APPL-NO: 8/ 799960
DATE FILED: February 12, 1997
PARENT-CASE:
This application is a continuation of U.S. patent application Ser. No. 08/237,357, filed May 2, 1994, U.S. Pat. No. 5,682,532.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Image
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☐ 40. Document ID: US 5768506 A

Entry 40 of 97

File: USPT

Jun 16, 1998

US-PAT-NO: 5768506
DOCUMENT-IDENTIFIER: US 5768506 A
TITLE: Method and apparatus for distributed workflow building blocks of process definition, initialization and execution
DATE-ISSUED: June 16, 1998
US-CL-CURRENT: 709/202; 709/226, 709/238
APPL-NO: 8/ 858957
DATE FILED: May 20, 1997
PARENT-CASE:
CROSS-REFERENCE TO RELATED APPLICATIONS This is a continuation of application Ser. No. 08/316,264 filed on Sep. 30, 1994, now abandoned. This application is related to application Ser. No. 08/315,390, filed concurrently herewith, for Method and Apparatus for Distributed Workflow, of Jim Randell. This application is also related to application Ser. No. 08/315,469 filed concurrently herewith, for Workflow Real Time Intervention, of Jim Randell.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Image
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☐ 41. Document ID: US 5758351 A

Entry 41 of 97

File: USPT

May 26, 1998

US-PAT-NO: 5758351
DOCUMENT-IDENTIFIER: US 5758351 A
TITLE: System and method for the creation and use of surrogate information system objects
DATE-ISSUED: May 26, 1998
US-CL-CURRENT: 707/104; 345/347, 345/348, 345/352, 707/10, 707/103, 707/3
APPL-NO: 8/ 397699
DATE FILED: March 1, 1995

☐ 42. Document ID: US 5754755 A

Entry 42 of 97

File: USPT

May 19, 1998

US-PAT-NO: 5754755
 DOCUMENT-IDENTIFIER: US 5754755 A
 TITLE: Method and system for generating test scripts
 DATE-ISSUED: May 19, 1998
 US-CL-CURRENT: 714/38; 714/738
 APPL-NO: 8/ 728622
 DATE FILED: October 10, 1996

☐ 43. Document ID: US 5751980 A

Entry 43 of 97

File: USPT

May 12, 1998

US-PAT-NO: 5751980
 DOCUMENT-IDENTIFIER: US 5751980 A
 TITLE: Method and system for displacing a dialogue box
 DATE-ISSUED: May 12, 1998
 US-CL-CURRENT: 345/354; 345/975
 APPL-NO: 8/ 547638
 DATE FILED: October 24, 1995
 FOREIGN-APPL-PRIORITY-DATA:
 FOREIGN-PRIORITY-APPL-NO: JP 6-258630
 FOREIGN-PRIORITY-APPL-DATE: October 25, 1994

☐ 44. Document ID: US 5745687 A

Entry 44 of 97

File: USPT

Apr 28, 1998

US-PAT-NO: 5745687
 DOCUMENT-IDENTIFIER: US 5745687 A
 TITLE: System for distributed workflow in which a routing node selects next node to be performed within a workflow procedure
 DATE-ISSUED: April 28, 1998
 US-CL-CURRENT: 709/201; 700/97; 705/8; 705/9; 709/102; 709/106
 APPL-NO: 8/ 858956
 DATE FILED: May 20, 1997
 PARENT-CASE:
 CROSS REFERENCE TO RELATED APPLICATION This is a continuation of application Ser. No. 08/315,390 filed on Sep. 30, 1994, now abandoned.

☐ 45. Document ID: US 5742828 A

Entry 45 of 97

File: USPT

Apr 21, 1998

US-PAT-NO: 5742828
 DOCUMENT-IDENTIFIER: US 5742828 A
 TITLE: Compiler and method for evaluation of foreign syntax expressions in source code
 DATE-ISSUED: April 21, 1998
 US-CL-CURRENT: 717/8
 APPL-NO: 8/ 285400
 DATE FILED: August 3, 1994

☐ 46. Document ID: US 5737592 A

Entry 46 of 97

File: USPT

Apr 7, 1998

US-PAT-NO: 5737592
DOCUMENT-IDENTIFIER: US 57375 A
TITLE: Accessing a relational database over the Internet using macro language files
DATE-ISSUED: April 7, 1998
US-CL-CURRENT: 707/4; 707/10, 707/2
APPL-NO: 8/ 491742
DATE FILED: June 19, 1995

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 47. Document ID: US 5727174 A

Entry 47 of 97

File: USPT

Mar 10, 1998

US-PAT-NO: 5727174
DOCUMENT-IDENTIFIER: US 5727174 A
TITLE: Graphical end-user interface for intelligent assistants
DATE-ISSUED: March 10, 1998
US-CL-CURRENT: 345/348; 345/336
APPL-NO: 7/ 855817
DATE FILED: March 23, 1992

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 48. Document ID: US 5719949 A

Entry 48 of 97

File: USPT

Feb 17, 1998

US-PAT-NO: 5719949
DOCUMENT-IDENTIFIER: US 5719949 A
TITLE: Process and apparatus for cross-correlating digital imagery
DATE-ISSUED: February 17, 1998
US-CL-CURRENT: 382/113; 348/144, 382/109
APPL-NO: 8/ 605625
DATE FILED: February 22, 1996
PARENT-CASE:
This application is a continuation, of application Ser. No. 08/332,274, filed Oct. 31, 1994, now abandoned.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 49. Document ID: US 5712990 A

Entry 49 of 97

File: USPT

Jan 27, 1998

US-PAT-NO: 5712990
DOCUMENT-IDENTIFIER: US 5712990 A
TITLE: Economical automated process for averting physical dangers to people, wildlife or environment due to hazardous waste
DATE-ISSUED: January 27, 1998
US-CL-CURRENT: 705/28; 705/29
APPL-NO: 7/ 771395
DATE FILED: October 3, 1991

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 50. Document ID: US 5712960 A

Entry 50 of 97

File: USPT

Jan 27, 1998

US-PAT-NO: 5712960
DOCUMENT-IDENTIFIER: US 5712960 A
TITLE: System and methods for intelligent database management using abductive reasoning
DATE-ISSUED: January 27, 1998
US-CL-CURRENT: 706/61
APPL-NO: 8/ 641013
DATE FILED: April 15, 1996
PARENT-CASE:
This is a continuation of application of Ser. No. 08/086,969 filed Jul. 2, 1993, now abandoned.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 51. Document ID: US 5706450

Entry 51 of 97

File: USPT

Jan 6, 1998

US-PAT-NO: 5706450

DOCUMENT-IDENTIFIER: US 5706450 A

TITLE: Method and system for presenting alternatives for selection using adaptive learning

DATE-ISSUED: January 6, 1998

US-CL-CURRENT: 345/326

APPL-NO: 8/ 641089

DATE FILED: April 29, 1996

PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATION This application is a continuation of U.S. patent application No. 08/171,540, filed Dec. 22, 1993, now abandoned.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Image
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☐ 52. Document ID: US 5701400 A

Entry 52 of 97

File: USPT

Dec 23, 1997

US-PAT-NO: 5701400

DOCUMENT-IDENTIFIER: US 5701400 A

TITLE: Method and apparatus for applying if-then-else rules to data sets in a relational data base and generating from the results of application of said rules a database of diagnostics linked to said data sets to aid executive analysis of financial data

DATE-ISSUED: December 23, 1997

US-CL-CURRENT: 706/45; 706/47, 706/60

APPL-NO: 8/ 400355

DATE FILED: March 8, 1995

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Image
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☐ 53. Document ID: US 5697788 A

Entry 53 of 97

File: USPT

Dec 16, 1997

US-PAT-NO: 5697788

DOCUMENT-IDENTIFIER: US 5697788 A

TITLE: Algorithm training system

DATE-ISSUED: December 16, 1997

US-CL-CURRENT: 434/118; 434/323, 434/362, 434/365, 703/13, 717/4

APPL-NO: 8/ 526093

DATE FILED: September 11, 1995

FOREIGN-APPL-PRIORITY-DATA:

FOREIGN-PRIORITY-APPL-NO: JP 6-245149

FOREIGN-PRIORITY-APPL-DATE: October 11, 1994

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Image
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☐ 54. Document ID: US 5694539 A

Entry 54 of 97

File: USPT

Dec 2, 1997

US-PAT-NO: 5694539

DOCUMENT-IDENTIFIER: US 5694539 A

TITLE: Computer process resource modelling method and apparatus

DATE-ISSUED: December 2, 1997

US-CL-CURRENT: 714/38; 717/4

APPL-NO: 8/ 289148

DATE FILED: August 10, 1994

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Image
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☐ 55. Document ID: US 5689648 A

Entry 55 of 97

File: USPT

Nov 18, 1997

US-PAT-NO: 5689648

DOCUMENT-IDENTIFIER: US 5689648 A

TITLE: Method and apparatus for publication of information

DATE-ISSUED: November 18, 1997

US-CL-CURRENT: 705/26; 348/473, 348/552, 455/3.1, 455/3.2, 455/4.2, 705/21

APPL-NO: 7/ 830165

DATE FILED: January 31, 1992

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 56. Document ID: US 5682532 A

Entry 56 of 97

File: USPT

Oct 28, 1997

US-PAT-NO: 5682532

DOCUMENT-IDENTIFIER: US 5682532 A

TITLE: System and method having programmable containers with functionality for managing objects

DATE-ISSUED: October 28, 1997

US-CL-CURRENT: 709/316; 707/103, 709/318

APPL-NO: 8/ 237357

DATE FILED: May 2, 1994

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 57. Document ID: US 5680557 A

Entry 57 of 97

File: USPT

Oct 21, 1997

US-PAT-NO: 5680557

DOCUMENT-IDENTIFIER: US 5680557 A

TITLE: Natural computing system

DATE-ISSUED: October 21, 1997

US-CL-CURRENT: 345/334; 345/326, 345/333

APPL-NO: 8/ 197787

DATE FILED: February 16, 1994

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 58. Document ID: US 5678039 A

Entry 58 of 97

File: USPT

Oct 14, 1997

US-PAT-NO: 5678039

DOCUMENT-IDENTIFIER: US 5678039 A

TITLE: System and methods for translating software into localized versions

DATE-ISSUED: October 14, 1997

US-CL-CURRENT: 707/4; 345/335, 707/203, 707/3, 707/533, 707/6

APPL-NO: 8/ 316690

DATE FILED: September 30, 1994

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 59. Document ID: US 5661816 A

Entry 59 of 97

File: USPT

Aug 26, 1997

US-PAT-NO: 5661816

DOCUMENT-IDENTIFIER: US 5661816 A

TITLE: Image analysis system

DATE-ISSUED: August 26, 1997

US-CL-CURRENT: 382/100

APPL-NO: 8/ 382517

DATE FILED: January 31, 1995

PARENT-CASE:

REFERENCE TO RELATED APPLICATIONS This application is a continuation-in-part of U.S. patent application Ser. No. 08/156,399 filed on Nov. 23, 1993 now abandoned, which, in turn, is a continuation of U.S. patent application Ser. No. 07/780,916 filed on Oct. 22, 1991, and now abandoned.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 60. Document ID: US 5657460 A

Entry 60 of 97

File: USPT

Aug 12, 1997

US-PAT-NO: 5657460
DOCUMENT-IDENTIFIER: US 5657460
TITLE: System and method for storing and displaying data
DATE-ISSUED: August 12, 1997
US-CL-CURRENT: 345/326; 345/335
APPL-NO: 8/ 420012
DATE FILED: April 11, 1995

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 61. Document ID: US 5655015 A

Entry 61 of 97

File: USPT

Aug 5, 1997

US-PAT-NO: 5655015
DOCUMENT-IDENTIFIER: US 5655015 A
TITLE: Computer-telephone integration system
DATE-ISSUED: August 5, 1997
US-CL-CURRENT: 379/201; 379/142, 379/157, 379/242, 379/265
APPL-NO: 8/ 641568
DATE FILED: May 1, 1996
PARENT-CASE:
This application is a FWC/continuation of application Ser. No. 08/198,897, filed Feb. 18, 1994, now abandoned.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 62. Document ID: US 5655014 A

Entry 62 of 97

File: USPT

Aug 5, 1997

US-PAT-NO: 5655014
DOCUMENT-IDENTIFIER: US 5655014 A
TITLE: Switching device independent computer-telephone integration system
DATE-ISSUED: August 5, 1997
US-CL-CURRENT: 379/201; 379/242, 379/289
APPL-NO: 8/ 198494
DATE FILED: February 18, 1994

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 63. Document ID: US 5642470 A

Entry 63 of 97

File: USPT

Jun 24, 1997

US-PAT-NO: 5642470
DOCUMENT-IDENTIFIER: US 5642470 A
TITLE: Singing voice synthesizing device for synthesizing natural chorus voices by modulating synthesized voice with fluctuation and emphasis
DATE-ISSUED: June 24, 1997
US-CL-CURRENT: 704/270; 704/258, 84/622, 84/628, 84/629, 84/633
APPL-NO: 8/ 310788
DATE FILED: September 27, 1994
FOREIGN-APPL-PRIORITY-DATA:
FOREIGN-PRIORITY-APPL-NO: JP 5-296324
FOREIGN-PRIORITY-APPL-DATE: November 26, 1993

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 64. Document ID: US 5642410 A

Entry 64 of 97

File: USPT

Jun 24, 1997

US-PAT-NO: 5642410
DOCUMENT-IDENTIFIER: US 5642410 A
TITLE: Call processor for a computer telephone integration system
DATE-ISSUED: June 24, 1997
US-CL-CURRENT: 379/201; 379/112, 379/127, 379/128, 379/211
APPL-NO: 8/ 616956
DATE FILED: March 15, 1996
PARENT-CASE:
This application is a continuation of application Ser. No. 08/490,325, filed Jun. 14, 1995, which is a continuation of application Ser. No. 08/198,821 filed on Feb. 18, 1994 both now abandoned.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 65. Document ID: US 5564050 A

Entry 65 of 97

File: USPT

Oct 8, 1996

US-PAT-NO: 5564050

DOCUMENT-IDENTIFIER: US 5564050 A

TITLE: System and method for enabling an interpreted programming language to be executed in a database management system environment

DATE-ISSUED: October 8, 1996

US-CL-CURRENT: 707/4; 395/500

APPL-NO: 8/ 471510

DATE FILED: June 6, 1995

PARENT-CASE:

This application is a continuation division of application Ser. No. 07/904,416, filed Jun. 25, 1992, now U.S. Pat. No. 5,442,779.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 66. Document ID: US 5546583 A

Entry 66 of 97

File: USPT

Aug 13, 1996

US-PAT-NO: 5546583

DOCUMENT-IDENTIFIER: US 5546583 A

TITLE: Method and system for providing a client/server interface in a programming language

DATE-ISSUED: August 13, 1996

US-CL-CURRENT: 709/313; 709/330

APPL-NO: 8/ 223276

DATE FILED: April 5, 1994

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 67. Document ID: US 5537529 A

Entry 67 of 97

File: USPT

Jul 16, 1996

US-PAT-NO: 5537529

DOCUMENT-IDENTIFIER: US 5537529 A

TITLE: Apparatus and method for creating versions of computer models and creating communications incorporating created versions therefrom

DATE-ISSUED: July 16, 1996

US-CL-CURRENT: 707/511; 345/302, 345/326, 345/501, 348/699, 707/512

APPL-NO: 8/ 051531

DATE FILED: April 22, 1993

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 68. Document ID: US 5530947 A

Entry 68 of 97

File: USPT

Jun 25, 1996

US-PAT-NO: 5530947

DOCUMENT-IDENTIFIER: US 5530947 A

TITLE: Graphics processing system having function for operating and editing data of a vector graphic and data of an image

DATE-ISSUED: June 25, 1996

US-CL-CURRENT: 345/435; 345/326

APPL-NO: 7/ 960855

DATE FILED: October 14, 1992

FOREIGN-APPL-PRIORITY-DATA:

FOREIGN-PRIORITY-APPL-NO: JP 3-291918

FOREIGN-PRIORITY-APPL-DATE: October 14, 1991

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 69. Document ID: US 5453958 A

Entry 69 of 97

File: USPT

Sep 26, 1995

US-PAT-NO: 5453958
DOCUMENT-IDENTIFIER: US 5453958 A
TITLE: Method for locating hydrocarbon reservoirs
DATE-ISSUED: September 26, 1995
US-CL-CURRENT: 367/70; 367/15, 367/47
APPL-NO: 8/ 075710
DATE FILED: June 11, 1993

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 70. Document ID: US 5442779 A

Entry 70 of 97

File: USPT

Aug 15, 1995

US-PAT-NO: 5442779
DOCUMENT-IDENTIFIER: US 5442779 A
TITLE: System and method for enabling an interpreted programming language to be executed in a database management system environment
DATE-ISSUED: August 15, 1995
US-CL-CURRENT: 707/4; 364/280, 364/280.4, 364/282.1, 364/DIG.1, 395/500
APPL-NO: 7/ 904416
DATE FILED: June 25, 1992

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 71. Document ID: US 5437006 A

Entry 71 of 97

File: USPT

Jul 25, 1995

US-PAT-NO: 5437006
DOCUMENT-IDENTIFIER: US 5437006 A
TITLE: Spreadsheet command/function capability from a dynamic-link library
DATE-ISSUED: July 25, 1995
US-CL-CURRENT: 707/503
APPL-NO: 8/ 009919
DATE FILED: January 27, 1993

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 72. Document ID: US 5418941 A

Entry 72 of 97

File: USPT

May 23, 1995

US-PAT-NO: 5418941
DOCUMENT-IDENTIFIER: US 5418941 A
TITLE: Method and apparatus for a dynamic application test facility
DATE-ISSUED: May 23, 1995
US-CL-CURRENT: 714/38; 345/966, 717/4
APPL-NO: 8/ 188501
DATE FILED: January 28, 1994

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 73. Document ID: US 5404098 A

Entry 73 of 97

File: USPT

Apr 4, 1995

US-PAT-NO: 5404098
DOCUMENT-IDENTIFIER: US 5404098 A
TITLE: Method and apparatus for improved correlation of electromagnetic emission test data
DATE-ISSUED: April 4, 1995
US-CL-CURRENT: 324/95; 324/627, 343/703
APPL-NO: 7/ 930770
DATE FILED: August 14, 1992

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 74. Document ID: US 5392208 A

Entry 74 of 97

File: USPT

Feb 21, 1995

US-PAT-NO: 5392208
DOCUMENT-IDENTIFIER: US 5392208 A
TITLE: Plant control system and method for displaying control circuit thereof
DATE-ISSUED: February 21, 1995
US-CL-CURRENT: 700/83
APPL-NO: 8/ 147039
DATE FILED: November 4, 1993
PARENT-CASE:
This application is a continuation of application Ser. No. 07/581,457, filed on Sep. 13, 1990, now abandoned.

FOREIGN-APPL-PRIORITY-DATA:
FOREIGN-PRIORITY-APPL-NO: JP 1-237882
FOREIGN-PRIORITY-APPL-DATE: September 13, 1989

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 75. Document ID: US 5378218 A

Entry 75 of 97

File: USPT

Jan 3, 1995

US-PAT-NO: 5378218
DOCUMENT-IDENTIFIER: US 5378218 A
TITLE: NC-machining controller
DATE-ISSUED: January 3, 1995
US-CL-CURRENT: 483/9; 483/8, 700/179
APPL-NO: 7/ 966039
DATE FILED: December 30, 1992
FOREIGN-APPL-PRIORITY-DATA:
FOREIGN-PRIORITY-APPL-NO: JP 2-175600
FOREIGN-PRIORITY-APPL-DATE: July 3, 1990
PCT-DATA:
PCT-DATE-FILED: July 3, 1991
PCT-APPL-NO: PCT/JP91/00896
PCT-371-DATE: December 30, 1992
PCT-102(E)-DATE: December 30, 1992
PCT-PUB-NO: WO92/00830
PCT-PUB-DATE: January 23, 1992

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 76. Document ID: US 5361201 A

Entry 76 of 97

File: USPT

Nov 1, 1994

US-PAT-NO: 5361201
DOCUMENT-IDENTIFIER: US 5361201 A
TITLE: Real estate appraisal using predictive modeling
DATE-ISSUED: November 1, 1994
US-CL-CURRENT: 705/35; 706/17
APPL-NO: 7/ 963908
DATE FILED: October 19, 1992

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 77. Document ID: US 5339392 A

Entry 77 of 97

File: USPT

Aug 16, 1994

US-PAT-NO: 5339392
DOCUMENT-IDENTIFIER: US 5339392 A
TITLE: Apparatus and method for creation of a user definable video displayed document showing changes in real time data
DATE-ISSUED: August 16, 1994
US-CL-CURRENT: 345/333; 345/334, 707/501
APPL-NO: 7/ 636044
DATE FILED: December 28, 1990
PARENT-CASE:
This is a continuation-in-part application of a prior co-pending U.S. patent application entitled "APPARATUS AND METHOD FOR PROVIDING DECOUPLING OF DATA EXCHANGE DETAILS AND PROVIDING HIGH PERFORMANCE COMMUNICATION BETWEEN SOFTWARE PROCESSES", Ser. No. 07/632,551, filed Dec. 21, 1990, which was a continuation-in-part of a prior co-pending U.S. patent application entitled "APPARATUS AND METHOD FOR PROVIDING DECOUPLING OF DATA EXCHANGE DETAILS AND PROVIDING HIGH PERFORMANCE COMMUNICATION BETWEEN SOFTWARE PROCESSES", Ser. No. 07/601,117, filed Oct. 22, 1990, now U.S. Pat. No. 5,257,369, which was a continuation-in-part of a prior co-pending U.S. patent application entitled "APPARATUS AND METHOD FOR PROVIDING DECOUPLING OF DATA EXCHANGE DETAILS AND PROVIDING HIGH PERFORMANCE COMMUNICATION BETWEEN SOFTWARE PROCESSES", Ser. No. 07/386,584, filed Jul. 27, 1989, now U.S. Pat. No. 5,187,787.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 78. Document ID: US 5241620 A

Entry 78 of 97

File: USPT

Aug 31, 1993

US-PAT-NO: 5241620
DOCUMENT-IDENTIFIER: US 5241620 A
TITLE: Embedding neural networks into spreadsheet applications
DATE-ISSUED: August 31, 1993
US-CL-CURRENT: 706/16
APPL-NO: 7/ 637301
DATE FILED: January 3, 1991

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 79. Document ID: US 5222236 A

Entry 79 of 97

File: USPT

Jun 22, 1993

US-PAT-NO: 5222236
DOCUMENT-IDENTIFIER: US 5222236 A
TITLE: Multiple integrated document assembly data processing system
DATE-ISSUED: June 22, 1993
US-CL-CURRENT: 707/102; 364/222.81, 364/222.82, 364/225.6, 364/225.8, 364/943, 364/943.43, 364/962.1, 364/962.2, 364/974.3, 364/974.4, 364/DIG.1, 364/DIG.2, 707/200, 707/522, 707/539
APPL-NO: 7/ 751676
DATE FILED: August 23, 1991
PARENT-CASE:
This is a continuation of application Ser. No. 07/188,777, filed Apr. 29, 1988, now abandoned.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 80. Document ID: US 5157779 A

Entry 80 of 97

File: USPT

US-PAT-NO: 5157779
DOCUMENT-IDENTIFIER: US 5157779 A
TITLE: User extensible testing system
US-CL-CURRENT: 714/37; 364/221, 364/221.7, 364/222.81, 364/225.6, 364/225.8, 364/230, 364/230.5, 364/232.3, 364/234, 364/236.8, 364/237, 364/237.2, 364/237.3, 364/259, 364/259.2, 364/259.5, 364/259.7, 364/262, 364/265, 364/266.4, 364/267, 364/267.91, 364/271, 364/282.1, 364/283.1, 364/285, 364/285.4, 364/DIG1, 714/46, 714/736
APPL-NO: 7/ 534431
DATE FILED: June 7, 1990

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 81. Document ID: US 5091320 A

Entry 81 of 97

File: USPT
18 of 22

Feb 25, 1992

US-PAT-NO: 5091320
DOCUMENT-IDENTIFIER: US 5091320
TITLE: Ellipsometric control of material growth
DATE-ISSUED: February 25, 1992
US-CL-CURRENT: 427/8; 117/202, 117/86, 117/954, 118/708, 356/369, 438/7
APPL-NO: 7/ 538648
DATE FILED: June 15, 1990

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Image
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☐ 82. Document ID: US 5070534 A

Entry 82 of 97

File: USPT

Dec 3, 1991

US-PAT-NO: 5070534
DOCUMENT-IDENTIFIER: US 5070534 A
TITLE: Simplified CAD parametric macroinstruction capability including variational geometrics feature
DATE-ISSUED: December 3, 1991
US-CL-CURRENT: 345/348; 345/441
APPL-NO: 7/ 258965
DATE FILED: October 17, 1988

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Image
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☐ 83. Document ID: US 5043891 A

Entry 83 of 97

File: USPT

Aug 27, 1991

US-PAT-NO: 5043891
DOCUMENT-IDENTIFIER: US 5043891 A
TITLE: Document generation apparatus and methods
DATE-ISSUED: August 27, 1991
US-CL-CURRENT: 707/531; 706/902, 707/530
APPL-NO: 7/ 403256
DATE FILED: September 5, 1989
PARENT-CASE:
CROSS-REFERENCES TO RELATED APPLICATIONS This application is a continuation-in-part of U.S. Ser. No. 371,434, filed 6/5/89, now U.S. Pat. No. 4,967,368 which in turn is a continuation-in-part of U.S. Ser. No. 030,250, filed 3/24/87, now U.S. Pat. No. 4,916,633 which itself is a continuation of U.S. Ser. No. 766,860, filed 8/16/85, now abandoned. The additional disclosure of the present application begins at Section 23 of the Description of a Preferred Embodiment and includes new FIGS. 10-14.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Image
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☐ 84. Document ID: US 4958235 A

Entry 84 of 97

File: USPT

Sep 18, 1990

US-PAT-NO: 4958235
DOCUMENT-IDENTIFIER: US 4958235 A
TITLE: System and method for rapidly conveying document images between distant locations
DATE-ISSUED: September 18, 1990
US-CL-CURRENT: 358/402; 358/426
APPL-NO: 7/ 293923
DATE FILED: January 5, 1989

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Image
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☐ 85. Document ID: US 4954981 A

Entry 85 of 97

File: USPT

Sep 4, 1990

US-PAT-NO: 4954981
DOCUMENT-IDENTIFIER: US 4954981 A
TITLE: Method and apparatus for accessing and manipulating time series
DATE-ISSUED: September 4, 1990
US-CL-CURRENT: 345/440; 345/353, 345/357, 345/961
APPL-NO: 7/ 245908
DATE FILED: September 16, 1988

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Image
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☐ 86. Document ID: US 4931928

Entry 86 of 97

File: USPT

Jun 5, 1990

US-PAT-NO: 4931928

DOCUMENT-IDENTIFIER: US 4931928 A

TITLE: Apparatus for analyzing source code

DATE-ISSUED: June 5, 1990

US-CL-CURRENT: 717/8; 707/3

APPL-NO: 7/ 269135

DATE FILED: November 9, 1988

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Image
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☐ 87. Document ID: US 4916610 A

Entry 87 of 97

File: USPT

Apr 10, 1990

US-PAT-NO: 4916610

DOCUMENT-IDENTIFIER: US 4916610 A

TITLE: Multilanguage software integration through preprocessing

DATE-ISSUED: April 10, 1990

US-CL-CURRENT: 717/8

APPL-NO: 7/ 253464

DATE FILED: October 5, 1988

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Image
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☐ 88. Document ID: US 4891762 A

Entry 88 of 97

File: USPT

Jan 2, 1990

US-PAT-NO: 4891762

DOCUMENT-IDENTIFIER: US 4891762 A

TITLE: Method and apparatus for tracking, mapping and recognition of spatial patterns

DATE-ISSUED: January 2, 1990

US-CL-CURRENT: 701/223; 342/64, 382/103, 382/201

APPL-NO: 7/ 154048

DATE FILED: February 9, 1988

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Image
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☐ 89. Document ID: US 4706212 A

Entry 89 of 97

File: USPT

Nov 10, 1987

US-PAT-NO: 4706212

DOCUMENT-IDENTIFIER: US 4706212 A

TITLE: Method using a programmed digital computer system for translation between natural languages

DATE-ISSUED: November 10, 1987

US-CL-CURRENT: 704/2; 364/972, 364/972.1, 364/975, 364/DIG.2, 434/157, 704/10, 704/4 , 704/7

APPL-NO: 6/ 176672

DATE FILED: March 31, 1971

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Image
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☐ 90. Document ID: US 4698757 A

Entry 90 of 97

File: USPT

US-PAT-NO: 4698757

DOCUMENT-IDENTIFIER: US 4698757 A

TITLE: Terminal procedure for utilizing host processor log on and log off prompts

US-CL-CURRENT: 713/201; 364/228.3, 364/230, 364/240.8, 364/284.4, 364/927.92, 364/929 , 364/940.62, 364/940.65, 364/940.81, 364/942.1, 709/225, 709/229

APPL-NO: 6/ 671863

DATE FILED: November 15, 1984

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Image
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☐ 91. Document ID: US 4641262 A

Entry 91 of 97

File: USPT
20 of 22

Feb 3, 1987

US-PAT-NO: 4641262
DOCUMENT-IDENTIFIER: US 4641262 A
TITLE: Personal computer attachment for host system display station
DATE-ISSUED: February 3, 1987
US-CL-CURRENT: 345/168
APPL-NO: 6/ 585813
DATE FILED: March 2, 1984
PARENT-CASE:
CROSS REFERENCE TO RELATED APPLICATION This application is a continuation-in-part of application Ser. No. 06/473,058, filed Mar. 7, 1983, now abandoned.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 92. Document ID: US 4575816 A

Entry 92 of 97

File: USPT

Mar 11, 1986

US-PAT-NO: 4575816
DOCUMENT-IDENTIFIER: US 4575816 A
TITLE: Interactive transactions processor using sequence table pointers to access function table statements controlling execution of specific interactive functions
DATE-ISSUED: March 11, 1986
US-CL-CURRENT: 345/336; 235/379, 902/40
APPL-NO: 6/ 218143
DATE FILED: December 19, 1980

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 93. Document ID: US 4378589 A

Entry 93 of 97

File: USPT

Mar 29, 1983

US-PAT-NO: 4378589
DOCUMENT-IDENTIFIER: US 4378589 A
TITLE: Undirectional looped bus microcomputer architecture
DATE-ISSUED: March 29, 1983
US-CL-CURRENT: 710/130
APPL-NO: 6/ 165818
DATE FILED: July 3, 1980
PARENT-CASE:
This is a continuation of application Ser. No. 754,462 filed Dec. 27, 1976, now abandoned.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 94. Document ID: US 4339793 A

Entry 94 of 97

File: USPT

US-PAT-NO: 4339793
DOCUMENT-IDENTIFIER: US 4339793 A
TITLE: Function integrated, shared ALU processor apparatus and method
US-CL-CURRENT: 712/32; 364/229, 364/229.3, 364/231.4, 364/231.7, 364/231.8, 364/232.3, 364/232.8, 364/238, 364/240, 364/240.1, 364/240.2, 364/241.1, 364/241.2, 364/241.3, 364/241.5, 364/241.9, 364/242.3, 364/243, 364/243.3, 364/244, 364/244.3, 364/247, 364/247.1, 364/247.2, 364/247.3, 364/247.4, 364/251, 364/251.1, 364/252.3, 364/252.6, 364/255.1, 364/259, 364/259.7, 364/260, 364/260.1, 364/260.2, 364/261, 364/261.2, 364/261.3, 364/261.4, 364/261.5, 364/262.4, 364/262.8, 364/263, 364/263.1, 364/270, 364/270.3, 364/271.6, 364/271.7, 364/DIG1, 710/200
APPL-NO: 6/ 068028
DATE FILED: August 20, 1979
PARENT-CASE:
This is a division, of application Ser. No. 754193 filed Dec. 27, 1976, now U.S. Pat. No. 4,181,934.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 95. Document ID: US 4181934 A

Entry 95 of 97

File: USPT

US-PAT-NO: 4181934

DOCUMENT-IDENTIFIER: US 4181934 A

TITLE: Microprocessor architecture with integrated interrupts and cycle steals prioritized channel

US-CL-CURRENT: 710/40; 364/231.4, 364/231.8, 364/232.3, 364/232.8, 364/238, 364/240,
364/240.1, 364/241.1, 364/241.2, 364/241.5, 364/241.9, 364/242.3, 364/242.31, 364/243,
364/243.3, 364/244, 364/244.3, 364/244.6, 364/245, 364/245.1, 364/247, 364/247.1, 364/247.2,
364/247.3, 364/247.6, 364/247.8, 364/251, 364/251.1, 364/252.3, 364/252.6, 364/254,
364/254.4, 364/254.6, 364/255, 364/255.1, 364/255.7, 364/258, 364/259, 364/259.1, 364/259.4,
364/259.5, 364/259.7, 364/260, 364/260.1, 364/261, 364/261.2, 364/261.3, 364/261.4,
364/261.5, 364/262.4, 364/262.5, 364/262.8, 364/263, 364/263.1, 364/263.2, 364/264,
364/264.4, 364/264.6, 364/265, 364/265.5, 364/266.3, 364/270, 364/270.3, 364/270.5,
364/270.6, 364/271.6, 364/271.7, 364/DIG1, 710/38

APPL-NO: 5/ 754193

DATE FILED: December 27, 1976

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 96. Document ID: US 3725652 A

Entry 96 of 97

File: USPT

Apr 3, 1973

US-PAT-NO: 3725652

DOCUMENT-IDENTIFIER: US 3725652 A

TITLE: COMPUTER CONTROLLED MACHINE TOOL SYSTEM WITH STORED MACRO LANGUAGE PROGRAM FOR EFFECTING PATTERN TYPE PUNCHING US-CL-CURRENT: 318/568.1; 318/600, 364/222, 364/236.3,
364/236.5, 364/237, 364/239, 364/239.4, 364/242, 364/248.2, 364/260, 364/260.1, 364/DIG1,
700/181, 700/86

APPL-NO: 5/ 148829

DATE FILED: June 1, 1971

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 97. Document ID: US 3656178 A

Entry 97 of 97

File: USPT

Apr 11, 1972

US-PAT-NO: 3656178

DOCUMENT-IDENTIFIER: US 3656178 A

TITLE: DATA COMPRESSION AND DECOMPRESSION SYSTEM

DATE-ISSUED: April 11, 1972

US-CL-CURRENT: 341/87; 364/260.6, 364/DIG.1

APPL-NO: 4/ 857707

DATE FILED: September 15, 1969

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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TDBD	115 and keyword\$	0	L21
ALL	118 and pars\$	3	L20
USPT	118 and pars\$	3	L19
USPT	117 and keyword\$	6	L18
USPT	116 and syntax	20	L17
USPT	115 and analyz\$	34	L16
USPT	macro same language same express\$	53	L15
USPT	extensible same macro same language	0	L14
USPT	16 and 703/\$.ccls.	2	L13
USPT	16 and 717/\$.ccls.	5	L12
USPT	16 and 712/\$.ccls.	0	L11
USPT	16 and 395/\$.ccls.	2	L10
USPT	16 and 364/\$.ccls.	1	L9
USPT	16 and 707/\$.ccls.	8	L8
USPT	16 and keyword\$	6	L7
USPT	15 and parse\$	18	L6
USPT	macro language	97	L5
USPT	5276880.pn.	1	L4
USPT	5070534.pn.	1	L3
USPT	5734907.pn.	1	L2

[Help](#)[Logout](#)[Main Menu](#)[Search Form](#)[Posting Counts](#)[Show S Numbers](#)[Edit S Numbers](#)[Generate Collection](#)**Search Results - Record(s) 1 through 18 of 18 returned.**☐ 1. Document ID: NN9507269

Entry 1 of 18

File: TDBD

Jul 1, 1995

TDB-ACC-NO: NN9507269

DISCLOSURE TITLE: Procedure Call Linkage Method

PUBLICATION-DATA:

IBM Technical Disclosure Bulletin, July 1995, US

VOLUME NUMBER: 38

ISSUE NUMBER: 7

PAGE NUMBER: 269 - 270

PUBLICATION-DATE: July 1, 1995 (19950701)

CROSS REFERENCE: 0018-8689-38-7-269

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☐ 2. Document ID: NN9503641

Entry 2 of 18

File: TDBD

Mar 1, 1995

TDB-ACC-NO: NN9503641

DISCLOSURE TITLE: Automated Support Code Generation for an Object Oriented System

PUBLICATION-DATA:

IBM Technical Disclosure Bulletin, March 1995, US

VOLUME NUMBER: 38

ISSUE NUMBER: 3

PAGE NUMBER: 641 - 646

PUBLICATION-DATE: March 1, 1995 (19950301)

CROSS REFERENCE: 0018-8689-38-3-641

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC
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☐ 3. Document ID: NA9406403

Entry 3 of 18

File: TDBD

Jun 1, 1994

TDB-ACC-NO: NA9406403

DISCLOSURE TITLE: Table Representations and an Algorithm for Calculations Among Forms

PUBLICATION-DATA:

IBM Technical Disclosure Bulletin, June 1994, US

VOLUME NUMBER: 37

ISSUE NUMBER: 6A

PAGE NUMBER: 403 - 410

PUBLICATION-DATE: June 1, 1994 (19940601)

CROSS REFERENCE: 0018-8689-37-6A-403

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☐ 4. Document ID: NA9404177

Entry 4 of 18

File: TDBD

Apr 1, 1994

TDB-ACC-NO: NA9404177

DISCLOSURE TITLE: Electronic Method for Delivery of Geographic Information System Data for Disaster Management

PUBLICATION-DATA:

IBM Technical Disclosure Bulletin, April 1994, US

VOLUME NUMBER: 37

ISSUE NUMBER: 4A

PAGE NUMBER: 177 - 178

PUBLICATION-DATE: April 1, 1994 (19940401)

CROSS REFERENCE: 0018-8689-37-4A-177

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☐ 5. Document ID: NA940439

Entry 5 of 18

File: TDBD

Apr 1, 1994

DISCLOSURE TITLE: Maximizing Geographic Information System Statistics Readability in a Business Graphic Environment

PUBLICATION-DATA:

IBM Technical Disclosure Bulletin, April 1994, US

VOLUME NUMBER: 37

ISSUE NUMBER: 4A

PAGE NUMBER: 39 - 40

PUBLICATION-DATE: April 1, 1994 (19940401)

CROSS REFERENCE: 0018-8689-37-4A-39

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☐ 6. Document ID: NN9210403

Entry 6 of 18

File: TDBD

Oct 1, 1992

TDB-ACC-NO: NN9210403

DISCLOSURE TITLE: Computerizing Video Surveillance Techniques.

PUBLICATION-DATA:

IBM Technical Disclosure Bulletin, October 1992, US

VOLUME NUMBER: 35

ISSUE NUMBER: 5

PAGE NUMBER: 403 - 404

PUBLICATION-DATE: October 1, 1992 (19921001)

CROSS REFERENCE: 0018-8689-35-5-403

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☐ 7. Document ID: NB9001208

Entry 7 of 18

File: TDBD

Jan 1, 1990

TDB-ACC-NO: NB9001208

DISCLOSURE TITLE: OS/2 Dynamic Link Interface From an Editor Macro Language.

PUBLICATION-DATA:

IBM Technical Disclosure Bulletin, January 1990, US

VOLUME NUMBER: 32

ISSUE NUMBER: 8B

PAGE NUMBER: 208 - 209

PUBLICATION-DATE: January 1, 1990 (19900101)

CROSS REFERENCE: 0018-8689-32-8B-208

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☐ 8. Document ID: NN8804103

Entry 8 of 18

File: TDBD

Apr 1, 1988

TDB-ACC-NO: NN8804103

DISCLOSURE TITLE: Personal Computer-Based Tester for X.21 Networks

PUBLICATION-DATA:

IBM Technical Disclosure Bulletin, April 1988, US

VOLUME NUMBER: 30

ISSUE NUMBER: 11

PAGE NUMBER: 103 - 106

PUBLICATION-DATE: April 1, 1988 (19880401)

CROSS REFERENCE: 0018-8689-30-11-103

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☐ 9. Document ID: NN80045119

Entry 9 of 18

File: TDBD

Apr 1, 1980

TDB-ACC-NO: NN80045119

DISCLOSURE TITLE: Automatic Checking for Computer Terminal System Test Equipment. April 1980.

PUBLICATION-DATA:

IBM Technical Disclosure Bulletin, April 1980, US

VOLUME NUMBER: 22

ISSUE NUMBER: 11

PAGE NUMBER: 5119 - 5120

PUBLICATION-DATE: April 1, 1980 (19800401)

CROSS REFERENCE: 0018-8689-22-11-5119

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☐ 10. Document ID: NN79034216

Entry 10 of 18

File: TDBD

Mar 1, 1979

TDB-ACC-NO: NN79034216

DISCLOSURE TITLE: SNA Terminal Access Method. March 1979.

PUBLICATION-DATA:

IBM Technical Disclosure Bulletin, March 1979, US

VOLUME NUMBER: 21

ISSUE NUMBER: 10

PAGE NUMBER: 4216 - 4218

PUBLICATION-DATE: March 1, 1979 (19790301)

CROSS REFERENCE: 0018-8689-21-10-4216

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☐ 11. Document ID: NN75101552

Entry 11 of 18

File: TDBD

Oct 1, 1975

TDB-ACC-NO: NN75101552

DISCLOSURE TITLE: Automatic Macro Parameter Checking. October 1975.

PUBLICATION-DATA:

IBM Technical Disclosure Bulletin, October 1975, US

VOLUME NUMBER: 18

ISSUE NUMBER: 5

PAGE NUMBER: 1552 - 1553

PUBLICATION-DATE: October 1, 1975 (19751001)

CROSS REFERENCE: 0018-8689-18-5-1552

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☐ 12. Document ID: NN7509959

Entry 12 of 18

File: TDBD

Sep 1, 1975

TDB-ACC-NO: NN7509959

DISCLOSURE TITLE: Operating System Interface Programs. September 1975.

PUBLICATION-DATA:

IBM Technical Disclosure Bulletin, September 1975, US

VOLUME NUMBER: 18

ISSUE NUMBER: 4

PAGE NUMBER: 959 - 960

PUBLICATION-DATE: September 1, 1975 (19750901)

CROSS REFERENCE: 0018-8689-18-4-959

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☐ 13. Document ID: NN7506206

Entry 13 of 18

File: TDBD

Jun 1, 1975

TDB-ACC-NO: NN7506206

DISCLOSURE TITLE: Structured Programming Processor. June 1975.

PUBLICATION-DATA:

IBM Technical Disclosure Bulletin, June 1975, US

VOLUME NUMBER: 18

ISSUE NUMBER: 1

PAGE NUMBER: 206 - 208

PUBLICATION-DATE: June 1, 1975 (19750601)

CROSS REFERENCE: 0018-8689-18-1-206

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☐ 14. Document ID: NN75012388

Entry 14 of 18

File: TDBD

Jan 1, 1975

TDB-ACC-NO: NN75012388

DISCLOSURE TITLE: Structured Programming Complex Structured IF Algorithm. January 1975.

PUBLICATION-DATA:

IBM Technical Disclosure Bulletin, January 1975, US

VOLUME NUMBER: 17

ISSUE NUMBER: 8

PAGE NUMBER: 2388 - 2390

PUBLICATION-DATE: January 1, 1975 (19750101)

CROSS REFERENCE: 0018-8689-17-8-2388

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☐ 15. Document ID: NN72043439

Entry 15 of 18

File: TDBD

Apr 1, 1972

TDB-ACC-NO: NN72043439

DISCLOSURE TITLE: Assembler PL/1 Dual Language Modules. April 1972.

PUBLICATION-DATA:
IBM Technical Disclosure Bulletin, April 1972, US

VOLUME NUMBER: 14
ISSUE NUMBER: 11
PAGE NUMBER: 3439 - 3441

PUBLICATION-DATE: April 1, 1972 (19720401)

CROSS REFERENCE: 0018-8689-14-11-3439

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☐ 16. Document ID: NN71043424

Entry 16 of 18

File: TDBD

Apr 1, 1971

TDB-ACC-NO: NN71043424

DISCLOSURE TITLE: Universal Macro Processor. April 1971.

PUBLICATION-DATA:
IBM Technical Disclosure Bulletin, April 1971, US

VOLUME NUMBER: 13
ISSUE NUMBER: 11
PAGE NUMBER: 3424 - 3425a

PUBLICATION-DATE: April 1, 1971 (19710401)

CROSS REFERENCE: 0018-8689-13-11-3424

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☐ 17. Document ID: NN71022667

Entry 17 of 18

File: TDBD

Feb 1, 1971

DISCLOSURE TITLE: Software-Controlled Unit Testing for IBM System/360. February 1971.

PUBLICATION-DATA:
IBM Technical Disclosure Bulletin, February 1971, USVOLUME NUMBER: 13
ISSUE NUMBER: 9
PAGE NUMBER: 2667 - 2668

PUBLICATION-DATE: February 1, 1971 (19710201)

CROSS REFERENCE: 0018-8689-13-9-2667

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☐ 18. Document ID: NN70101180

Entry 18 of 18

File: TDBD

Oct 1, 1970

TDB-ACC-NO: NN70101180

DISCLOSURE TITLE: Indirect Data Addressing in Macro Languages. October 1970.PUBLICATION-DATA:
IBM Technical Disclosure Bulletin, October 1970, USVOLUME NUMBER: 13
ISSUE NUMBER: 5
PAGE NUMBER: 1180 - 1181

PUBLICATION-DATE: October 1, 1970 (19701001)

CROSS REFERENCE: 0018-8689-13-5-1180

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USPT	117 and keyword\$	6	<u>L18</u>
USPT	116 and syntax	20	<u>L17</u>
USPT	115 and analyz\$	34	<u>L16</u>
USPT	macro same language same express\$	53	<u>L15</u>
USPT	extensible same macro same language	0	<u>L14</u>
USPT	16 and 703/\$.ccls.	2	<u>L13</u>
USPT	16 and 717/\$.ccls.	5	<u>L12</u>
USPT	16 and 712/\$.ccls.	0	<u>L11</u>
USPT	16 and 395/\$.ccls.	2	<u>L10</u>
USPT	16 and 364/\$.ccls.	1	<u>L9</u>
USPT	16 and 707/\$.ccls.	8	<u>L8</u>
USPT	16 and keyword\$	6	<u>L7</u>
USPT	15 and parse\$	18	<u>L6</u>
USPT	macro language	97	<u>L5</u>
USPT	5276880.pn.	1	<u>L4</u>
USPT	5070534.pn.	1	<u>L3</u>
USPT	5734907.pn.	1	<u>L2</u>
USPT	5737592.pn.	1	<u>L1</u>

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File: TDBD

Jan 1, 1990

TDB-ACC-NO: NB9001208

DISCLOSURE TITLE: OS/2 Dynamic Link Interface From an Editor Macro Language.

PUBLICATION-DATA:

IBM Technical Disclosure Bulletin, January 1990, US

VOLUME NUMBER: 32

ISSUE NUMBER: 8B

PAGE NUMBER: 208 - 209

PUBLICATION-DATE: January 1, 1990 (19900101)

CROSS REFERENCE: 0018-8689-32-8B-208

DISCLOSURE TEXT:

- Disclosed is a program which allows an editor macro programmer access to the rich function set of the OS/2* dynamic link library. The interface described here will show the steps necessary to connect a macro language to an operating system function CALL. - Editor macro languages do not inherently lend themselves to direct calls to the operating system's services. However, internal support can be added to the editor macro language to allow for this to occur. The advantage to calling operating system services in an editor macro language is that it provides a very large set of function to the macro programmer. It allows the editor program to remain small in size, as opposed to the case where the editor would provide special case functions for all the needs of the macro programmer. - In its most basic form the interface described here is a generalized call to the operating system. The steps that are involved are: 1. Receive information as to which dynamic library module will be used (e.g., DOS-CALLS); 2. Receive information as to which dynamic library procedure will be used (e.g., DOS FINDFIRST); 3. Receive information as to which stack parameters must be passed to the procedure; 4. Build the appropriate parameter stack by pushing the parameters on the machine stack; 5. Ascertain whether the requested module is loaded and, if not, load the module; 6. Get the address of the requested procedure; 7. Issue an indirect call to the requested procedure; and 8. Build a string from the return information of the function, which string serves as a return code to the macro programmer. - The operating system services that are used to accomplish the task are DOSLOADMODULE and DOSGETPROCADDR. These functions provide a very dynamic interface to the operating system. This allows for run-time binding of the operating system functions and any dynamic link library functions. This is opposed to static binding of functions at compile and link time. - The advantage of dynamic run time binding of program functions is that each executable module does not have the actual code to perform a system service embedded in its load image. Instead, the code resides in shared libraries called dynamic link libraries. * Trademark of IBM Corp.

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Search Results - Record(s) 1 through 8 of 8 returned.

☐ 1. Document ID: US 6038562 A

Entry 1 of 8

File: USPT

Mar 14, 2000

US-PAT-NO: 6038562

DOCUMENT-IDENTIFIER: US 6038562 A

TITLE: Interface to support state-dependent web applications accessing a relational database

DATE-ISSUED: March 14, 2000

US-CL-CURRENT: 707/10; 707/101, 707/2, 707/202

APPL-NO: 8/ 708512

DATE FILED: September 5, 1996

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 2. Document ID: US 5855014 A

Entry 2 of 8

File: USPT

Dec 29, 1998

US-PAT-NO: 5855014

DOCUMENT-IDENTIFIER: US 5855014 A

TITLE: Getfield function for a relational workgroup platform using keyword and workflow databases

DATE-ISSUED: December 29, 1998

US-CL-CURRENT: 707/3; 707/10, 707/201, 707/203

APPL-NO: 8/ 739864

DATE FILED: October 31, 1996

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☒ 3. Document ID: US 5819303 A

Entry 3 of 8

File: USPT

Oct 6, 1998

US-PAT-NO: 5819303

DOCUMENT-IDENTIFIER: US 5819303 A

TITLE: Information management system which processes multiple languages having incompatible formats

DATE-ISSUED: October 6, 1998

US-CL-CURRENT: 707/536; 704/8

APPL-NO: 8/ 954084

DATE FILED: October 20, 1997

PARENT-CASE:

This application is a continuation of application Ser. No. 08/751,562 filed Nov. 18, 1996, now abandoned, which is a continuation of application Ser. No. 08/312,979, filed Sep. 30, 1994 now abandoned.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 4. Document ID: US 5758351 A

Entry 4 of 8

File: USPT

May 26, 1998

US-PAT-NO: 5758351
DOCUMENT-IDENTIFIER: US 5758351 A
TITLE: System and method for the creation and use of surrogate information system objects
DATE-ISSUED: May 26, 1998
US-CL-CURRENT: 707/104; 345/347, 345/348, 345/352, 707/10, 707/103, 707/3
APPL-NO: 8/ 397699
DATE FILED: March 1, 1995

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☒ 5. Document ID: US 5678039 A

Entry 5 of 8 File: USPT Oct 14, 1997

US-PAT-NO: 5678039
DOCUMENT-IDENTIFIER: US 5678039 A
TITLE: System and methods for translating software into localized versions
DATE-ISSUED: October 14, 1997
US-CL-CURRENT: 707/4; 345/335, 707/203, 707/3, 707/533, 707/6
APPL-NO: 8/ 316690
DATE FILED: September 30, 1994

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 6. Document ID: US 5564050 A

Entry 6 of 8 File: USPT Oct 8, 1996

US-PAT-NO: 5564050
DOCUMENT-IDENTIFIER: US 5564050 A
TITLE: System and method for enabling an interpreted programming language to be executed in a database management system environment
DATE-ISSUED: October 8, 1996
US-CL-CURRENT: 707/4; 395/500
APPL-NO: 8/ 471510
DATE FILED: June 6, 1995
PARENT-CASE:
This application is a continuation division of application Ser. No. 07/904,416, filed Jun. 25, 1992, now U.S. Pat. No. 5,442,779.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 7. Document ID: US 5442779 A

Entry 7 of 8 File: USPT Aug 15, 1995

US-PAT-NO: 5442779
DOCUMENT-IDENTIFIER: US 5442779 A
TITLE: System and method for enabling an interpreted programming language to be executed in a database management system environment
DATE-ISSUED: August 15, 1995
US-CL-CURRENT: 707/4; 364/280, 364/280.4, 364/282.1, 364/DIG.1, 395/500
APPL-NO: 7/ 904416
DATE FILED: June 25, 1992

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☒ 8. Document ID: US 4931928 A

Entry 8 of 8 File: USPT Jun 5, 1990

US-PAT-NO: 4931928
DOCUMENT-IDENTIFIER: US 4931928 A
TITLE: Apparatus for analyzing source code
DATE-ISSUED: June 5, 1990
US-CL-CURRENT: 717/8; 707/3
APPL-NO: 7/ 269135
DATE FILED: November 9, 1988

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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